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<210> 6923
<211> 341
<212> PRT
<213> Enterobacter cloacae
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Val 1	Asp	Gly	Leu	Val 5	Lys	Lys	Ile	Gln	Gln 10	Arg	Ile	Ser	Pro	Gly 15	Arg
Ser	Met	Val	Tyr	Ile	Ile	Ser	Val	Ser	Ile	His	Ser	Gly	Leu 30	Asn	Ala
Gln	Gly	Lys	Arg	Phe	Cys	Met	Gln 40	Ile	Ser	Arg	Ala	Asp 45	Val	Ala	Asp
Leu	Ile	Tyr	Phe	Met	Ala	Ile	Ala	Arg	His	Arg	Ser	Phe	Ser	Arg	Ala
Ala 65	Ile	Glu	Leu	Gly	Val 70	Ser	Ala	Ser	Ala	Leu	Ser	His	Ala	Leu	Lys 80
Gly	Leu	Glu	Thr	Arg	Leu	Gly	Val	Arg	Leu	Leu	Asn	Arg	Thr	Thr	Lys 95
Ser	Val	Thr	Pro	Thr	Ala	Ala	Gly	Glu 105	Glu	Leu	Val	Gln	Ser	Val	Leu
Gln	Pro	Phe	Asp	Thr	Ile	Glu	Gly	Ala	Leu	Glu	Ser	Leu	Asn	Arg	Tyr
Arg	Asn	Thr	Pro	Thr	Gly	Arg	Ile	Arg	Ile	Asn	Ala	Ala	Val	Glu	Ala
Ala 145	Asn	Leu	Leu	Leu	Ala 150	Pro	Val	Met	Pro	Ala	Phe	Met	Asp	Arg	Tyr 160
Pro	Asp	Ile	Glu	Ile	Asp	Ile	Val	Ala	Ser	Asn	Arg	Met	Val	Asp	Val
Thr	Asp	Ala	Gly	Phe	Asp	Ala	Gly	Ile 185	Arg	Tyr	Gly	Gly	Thr	Val	Pro
Glu	Asp	Met	Val	Ala	Arg	Arg	Leu	Ser	Ala	Asp	Ile	Arg	Trp	Val	Ile
Ala	Ala	Ser	Pro	Asp	Tyr	Leu	Glu	Arg	Tyr	Gly	Thr	Pro	Glu	Tyr	Pro
Asp 225	Asp	Leu	Leu	His	His 230	Arg	Cys	Ile	Ser	Asn	Arg	Leu	Gly	Asp	Asp 240
Arg	Ile	Tyr	Arg	Trp	Glu	Leu	Glu	Arg	Asp	Gly	Glu	Thr	Tyr	Gln	Ile
Thr	Val	Pro	Gly	Ser	Val	Thr	Val	Asn	Gln	Ala	Glu	Thr	Gly	Leu	Val
Ala	Val	Leu	Gly	Gly	Ala	Gly	Leu	Met	Tyr	Phe	Pro	Glu	Pro	Leu	Val

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<210> 6924
<211> 179
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<400> 6925

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<210> 6926
<211> 176
<212> PRT
<213> Enterobacter cloacae
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<400> 6926

Lys	Gln	Trp	Arg	Ala	Tyr	Ser	Ser	Arg	Ala	Cys	Ala	Arg	Asn	Glu	Ile
1				5					10					15	
Gly	Lys	Gly	His	Arg	Asn	Ile	Ala	Leu	Val	Ile	Asp	Asn	Glu	Thr	Asp
			20					25					30		
Asp	Ala	Ser	Lys	Arg	Met	Val	Glu	Gly	Tyr	Arg	Asn	Val	Leu	Gln	Asn
		35					40					45			
Tyr	Ser	Phe	Pro	Phe	Asn	Arg	Gln	Leu	Val	Leu	Thr	Ala	Asn	Glu	Asn
	50					55					60				
Val	Glu	Arg	Ala	Leu	Leu	Thr	Leu	Ile	Asn	Ser	Leu	Ser	Lys	Phe	Ser
65					70					75					80
Ser	Ile	Val	Val	Lys	Arg	Asp	Ala	Tyr	Ala	Ala	Glu	Ala	Met	Arg	Leu
				85					90					95	
Phe	Arg	Glu	Phe	Asn	Ile	Ala	Val	Pro	Gln	Glu	Val	Ser	Leu	Leu	Ser
			100					105					110		
Leu	Glu	Asp	Ser	Pro	Leu	Ala	Thr	Gln	Leu	Tyr	Pro	Gln	Leu	Thr	Cys
		115					120					125			
Ile	Ser	Trp	Pro	Met	Glu	Ser	Leu	Leu	His	Gln	Cys	Val	Gln	Arg	Ile
	130					135					140				
Lys	Ser	Ile	Val	Glu	Gly	Arg	Pro	Leu	Arg	Glu	Thr	Glu	Leu	Pro	Pro
145					150					155					160
Ile	Ile	Gly	Lys	Leu	Thr	Pro	Arg	Gln	Ser	Val	Leu	Glu	Met	Ser	
				165					170					175	

<210> 6927

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 6927

Thr	Arg	Cys	Ala	Leu	Leu	Phe	Leu	Lys	Ile	Met	Arg	Ser	Gly	Arg	Arg
1				5					10					15	
Ser	Gly	Arg	Asn	Ile	His	Leu	Thr	Glu	Pro	Cys	Met	Asn	Tyr	Thr	His
			20					25					30		
Leu	Gly	Arg	Thr	Gly	Leu	Lys	Val	Ser	Arg	Leu	Cys	Leu	Gly	Thr	Met
		35					40					45			
Asn	Phe	Gly	Asp	Val	Thr	Asp	Glu	Lys	Thr	Ser	Ala	Arg	Ile	Leu	Asp
	50					55				60					
Glu	Ala	Leu	Glu	Ala	Gly	Ile	Asn	Phe	Ile	Asp	Thr	Ala	Asp	Val	Tyr
65					70					75					80
Gly	Thr	Glu	Gln	Ser	Pro	Asp	Ile	Gln	Gln	Gly	Ser	Gly	Leu	Ser	Glu
			85					90					95		
Glu	Ile	Ile	Gly	Arg	Trp	Ile	Gln	Gln	Gly	Gly	Arg	Arg	Asp	Arg	Ile
			100				105						110		
Val	Leu	Ala	Thr	Lys	Val	Tyr	Gln	Pro	Met	Gly	Pro	Gly	Pro	Asn	Asp
	115						120					125			
Arg	Arg	Leu	Ser	Ala	Tyr	His	Ile	Arg	Lys	Ala	Cys	Glu	Asp	Ser	Leu
	130					135					140				
Arg	Arg	Leu	Lys	Thr	Asp	His	Ile	Asp	Val	Tyr	Gln	Met	His	His	Ile
145					150					155					160
Asp	Arg	Tyr	Thr	Pro	Trp	Glu	Glu	Ile	Trp	Gln	Ala	Met	Glu	Leu	Leu
			165					170						175	
Val	Gln	Gln	Gly	Lys	Val	Leu	Tyr	Ile	Gly	Ser	Ser	Asn	Phe	Ala	Gly
			180					185					190		
Trp	Asp	Ile	Ala	Thr	Ala	Gln	Ser	Val	Ala	Thr	Ala	Arg	His	Ser	Leu
	195						200					205			
Gly	Leu	Val	Ala	Glu	Gln	Ser	Leu	Tyr	Asn	Leu	Thr	Ala	Arg	Thr	Val
	210					215					220				
Glu	Leu	Glu	Val	Ile	Pro	Ala	Cys	Arg	His	Phe	Gly	Leu	Gly	Leu	Ile
225					230					235					240
Pro	Trp	Ser	Pro	Leu	Ala	Gly	Gly	Leu	Leu	Gly	Gly	Val	Leu	Lys	Lys

				245					250				255				
Met	Glu	Ser	Gly	Arg	Arg	Ala	Arg	Pro	Ala	Phe	Ser	Arg	Leu	Ile	Glu		
			260					265					270				
Gln	Tyr	Arg	Pro	Gln	Leu	Glu	Ala	Tyr	Glu	Gly	Leu	Cys	Glu	Asp	Leu		
		275					280					285					
Asp	Glu	Thr	Pro	Ser	Asp	Val	Ala	Leu	Ala	Trp	Leu	Leu	Gln	Asn	Pro		
	290					295					300						
Val	Val	Thr	Ala	Pro	Leu	Ile	Gly	Pro	Arg	Thr	Val	Glu	Gln	Leu	Arg		
305					310					315					320		
Glu	Ala	Leu	His	Ala	Thr	Thr	Ile	Thr	Leu	Ser	Asp	Asp	Thr	Met	Ser		
			325						330					335			
Cys	Leu	Asp	Glu	Ile	Trp	Pro	Gly	Pro	Gly	Gly	Glu	Ala	Pro	Gln	Ala		
			340					345					350				
Tyr	Ala	Trp															
		355															

<210> 6928

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 6928

Lys	Arg	Glu	Ser	Pro	Val	Val	Ser	Val	Cys	Lys	Val	Glu	Ile	Gln	Asn		
1				5				10						15			
Phe	Arg	Ser	Ile	Arg	Leu	Leu	Thr	Trp	Leu	Pro	Ser	Pro	Gly	Leu	Asn		
			20					25					30				
Cys	Leu	Ile	Gly	Pro	Gly	Asp	Ser	Gly	Lys	Thr	Thr	Ile	Leu	Asp	Ala		
		35					40					45					
Ile	Asp	Leu	Cys	Leu	Gly	Ala	Arg	Arg	Asn	Val	Ser	Phe	Ser	Asp	Thr		
	50					55				60							
Asp	Phe	Phe	Gly	Leu	Asp	Val	Thr	Gln	Pro	Ile	Ser	Ile	Thr	Leu	Ala		
					70					75					80		
Leu	Gly	Ser	Leu	Pro	Asp	Ala	Leu	Arg	Thr	Met	Glu	Thr	Tyr	Gly	Asn		
				85					90					95			
Phe	Leu	Tyr	Pro	Gly	Val	Lys	Ala	Val	Ser	Gly	Asp	Ile	Glu	Lys	Cys		
			100					105					110				
Cys	Tyr	Ala	Gly	Asn	Arg	Ile	Thr	Thr	Leu	Asn	Asn	Leu	Phe	Asp	Cys		
		115					120					125					
Phe	Asn	Phe	Lys	Arg	Phe	Arg	Ile	Thr	Leu	Thr	Ala	His	Gly	His	His		
	130					135					140						
Ser	Leu	Ser	His	Leu	Lys												
145					150												

<210> 6929

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 6929

Glu	His	Ile	Met	Asn	Asn	Ala	Leu	Tyr	Asn	Gln	Ile	Arg	Ile	Phe	Gln		
1				5				10						15			
Ser	Ile	Ala	Arg	Glu	Gly	Asn	Ile	Ser	Ala	Ala	Ala	Arg	Lys	Leu	Glu		
			20					25					30				
Ile	Thr	Pro	Pro	Ser	Val	Ser	Asn	Ala	Leu	Lys	Leu	Leu	Glu	Asp	His		
		35					40					45					
Ile	Gly	His	Pro	Leu	Phe	Val	Arg	Thr	Thr	Arg	Arg	Ile	Glu	Leu	Thr		
	50					55				60							
Glu	Thr	Gly	Gln	Leu	Leu	Leu	Glu	Gln	Thr	Ala	Ala	Ala	Val	Glu	Ser		
					70					75					80		
Leu	Glu	His	Ser	Leu	Glu	Ser	Ile	Arg	Asp	Gln	Asn	Gln	Glu	Pro	Ser		
				85					90					95			

Gly	Ile	Val	Arg	Ile	Thr	Leu	Ser	Arg	Phe	Ala	Tyr	Leu	Leu	Ile	Leu
			100					105					110		
Lys	Pro	Ala	Met	Ala	Lys	Phe	Cys	Gln	Gln	Tyr	Pro	Gly	Ile	Gln	Leu
		115					120					125			
Glu	Ile	Ser	Val	Tyr	Asp	Gly	Thr	Val	Asn	Val	Ile	Glu	Glu	Arg	Phe
	130					135					140				
Asp	Leu	Gly	Ile	Arg	Phe	Gly	Asp	Ile	Leu	Glu	Gly	Gly	Val	Val	Ala
145					150					155					160
Arg	Pro	Leu	Met	Lys	Pro	Phe	Arg	Glu	Gly	Leu	Tyr	Ala	Ser	Ser	Ala
			165					170						175	
Tyr	Ile	Ser	Glu	His	Gly	Met	Pro	Glu	Val	Pro	Ala	Asp	Leu	Ser	Gln
		180						185					190		
His	Lys	Leu	Ile	Gly	Tyr	Arg	Phe	Ile	Thr	Asn	Asn	Arg	Ile	Leu	Pro
	195						200					205			
Leu	Ile	Leu	Asn	Asp	Arg	Gly	Glu	Gln	Leu	Thr	Val	Glu	Met	Pro	Gly
	210					215					220				
Gln	Leu	Ile	Ser	Asn	Asp	Ile	Asp	Val	Met	Ala	Asp	Gly	Ile	Arg	Asn
225					230					235					240
Gly	Leu	Gly	Ile	Gly	Arg	Leu	Phe	Glu	Pro	Ile	Leu	Gln	Leu	Gln	Pro
			245					250						255	
Asp	Arg	Glu	Arg	Phe	Ile	Pro	Val	Met	Glu	Ser	Tyr	Trp	Lys	Thr	Tyr
		260						265					270		
Pro	Pro	Val	Tyr	Leu	Tyr	Tyr	Pro	Lys	Asn	Ala	Gly	Lys	Thr	Lys	Arg
		275					280				285				
Val	Lys	Ala	Leu	Ile	Asp	Phe	Leu	Ile	Ser	Ala	Thr	Gly	Arg		
	290					295					300				

<210> 6930

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6930

Ala	Val	Ser	Thr	Lys	Ser	Gly	Pro	Asp	Pro	Gly	Glu	Lys	Arg	Pro	Arg
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Leu	Met	Pro	Gly	Asn	Asp	Gln	Ile	Asn	Glu	Ser	Phe	Leu	Arg	Tyr	Arg
		20						25				30			
Glu	Phe	Gln	Phe	Met	Ser	Lys	Met	Met	His	Asp	Gln	His	Ser	Ala	Ser
	35					40					45				
Val	Pro	Ala	Ser	Arg	Asp	Arg	Arg	Asn	Phe	Leu	Ile	Ala	Gly	Ala	Gly
	50				55					60					
Leu	Ala	Leu	Ala	Ala	Thr	Thr	Leu	Gly	Arg	Ser	Gly	Ala	Val	Met	Ala
65				70				75						80	
Lys	Pro	Ala	Gly	Gln	Asp	Thr	Ser	Ser	Ala	Pro	Ser	Gly	Ala	Val	Pro
			85					90					95		
Val	Gln	Lys	Glu	Thr	Leu	Thr	Thr	Arg	Lys	Leu	Gly	Ser	Leu	Glu	Val
		100						105					110		
Ser	Ser	Met	Gly	Leu	Gly	Cys	Leu	Pro	Met	Val	Gly	Tyr	Tyr	Gly	Gly
		115				120					125				
Gly	Pro	Arg	Asp	Arg	Lys	Ala	Met	Val	Ser	Leu	Ile	Arg	Ala	Ala	Phe
	130				135					140					
Glu	Gln	Gly	Ile	Thr	Phe	Phe	Asp	Thr	Ala	Glu	Val	Tyr	Gly	Pro	His
145				150					155					160	
Leu	Ser	Glu	Glu	Phe	Val	Gly	Glu	Ala	Leu	Ala	Pro	Val	Arg	Asp	Arg
			165					170					175		
Val	Val	Ile	Ala	Thr	Lys	Phe	Gly	Phe	Gly	Val	Glu	Glu	Gly	Lys	Pro
		180						185					190		
Thr	Ser	Leu	Asn	Ser	His	Pro	Asp	His	Ile	Arg	Arg	Ala	Val	Glu	Gly
		195				200						205			
Ser	Leu	Lys	Arg	Leu	Lys	Thr	Asp	His	Ile	Asp	Leu	Leu	Tyr	Gln	His
	210					215					220				

Arg	Pro	Asp	Pro	Asn	Val	Pro	Ile	Glu	Asp	Val	Ala	Glu	Thr	Val	Lys
225					230					235					240
Ala	Leu	Ile	Arg	Glu	Gly	Lys	Val	Lys	His	Trp	Gly	Leu	Ser	Glu	Ala
				245					250					255	
Ser	Ala	Gly	Thr	Ile	Arg	Arg	Ala	His	Ala	Val	Leu	Pro	Val	Thr	Ala
			260					265					270		
Val	Gln	Ser	Glu	Tyr	Ala	Met	Trp	Trp	Arg	Glu	Pro	Glu	Thr	Arg	Ile
		275					280					285			
Phe	Pro	Thr	Leu	Glu	Glu	Leu	Gly	Ile	Gly	Phe	Val	Pro	Tyr	Cys	Pro
	290					295					300				
Thr	Ala	Arg	Ser	Phe	Leu	Ala	Gly	Ala	Val	Asn	Pro	Ser	Gln	Arg	Phe
305					310					315					320
Asp	Ser	Thr	Asp	Arg	Arg	His	Asn	Leu	Pro	Arg	Phe	Gln	Pro	Asp	Ala
				325					330					335	
Leu	Ala	Lys	Asn	Met	Val	Leu	Leu	Glu	Phe	Ala	Gln	Ser	Trp	Ala	Arg
			340					345					350		
Arg	Lys	Asn	Thr	Thr	Pro	Val	Gln	Phe	Ala	Leu	Ala	Trp	Val	Met	Ala
			355				360						365		
Gln	Arg	Pro	Trp	Ile	Val	Pro	Ile	Pro	Gly	Thr	Thr	Gln	Tyr	Pro	His
	370					375					380				
Leu	Ile	Glu	Asn	Ser	Gly	Ala	Pro	Gln	Val	Arg	Leu	Thr	Asp	Ser	Glu
385					390					395					400
Leu	Arg	Glu	Ile	Asp	Ala	Ala	Leu	Ala	Arg	Ile	Pro	Leu	Gln	Gly	Gly
				405					410					415	
Arg	Ala	Asp	Pro	Phe	Thr	Glu	Ser	Gln	Phe	Asp	Lys	Ser			
			420					425					430		

<210> 6931

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6931

Val	Lys	Ser	Pro	Ser	Val	Phe	Leu	Pro	Gly	Ile	Asn	His	Met	Asn	Gly
1				5					10					15	
Leu	Asn	His	Asn	Ala	Leu	Thr	Arg	Ser	Ala	Val	Pro	Ile	Pro	Pro	Cys
			20					25					30		
Glu	Arg	Ser	Leu	Gln	Thr	Val	Glu	Ala	Gln	Pro	Tyr	Phe	Ser	Val	Ser
		35					40					45			
Glu	Ala	Ser	Leu	Val	Leu	Glu	Gly	Ala	Val	Phe	Asp	Arg	Asn	Asn	Asn
	50					55				60					
Leu	Leu	Phe	Val	Asp	Ala	Ala	Thr	Gly	Arg	Val	Phe	Lys	Leu	Thr	Pro
65					70					75					80
Glu	Arg	Gln	Leu	Ser	Ile	Val	Leu	Lys	Glu	Asn	Thr	Phe	Gly	Ala	Ser
				85					90					95	
Gly	Leu	Ala	Val	His	Lys	Asp	Gly	Arg	Ile	Phe	Ile	Ala	Ser	Val	Gly
			100					105					110		
Asp	Met	Gln	Arg	Gly	Ser	Val	Arg	Ala	Ile	Glu	Pro	Asp	Gly	Thr	Arg
		115					120					125			
Glu	Gln	Met	Ile	Val	Asp	Pro	Glu	Gly	Gly	Phe	Leu	Ala	Asn	Asp	Leu
		130				135					140				
Val	Phe	Asp	Asn	Gln	Gly	Gly	Phe	Tyr	Phe	Thr	Asp	Ser	Arg	Gly	Asn
145					150					155					160
Ser	Ala	Asp	Pro	Gln	Gly	Gly	Val	Phe	Tyr	Val	Ser	Pro	Asn	Val	Gly
				165					170					175	
Ser	Ile	His	Ala	Ile	Leu	Pro	Gly	Leu	Ala	Val	Gly	Asn	Gly	Leu	Ala
			180					185					190		
Ile	Asp	Pro	Asp	Gly	Thr	Leu	Ile	Trp	Ala	Thr	Glu	His	Ala	Lys	Asn
		195					200					205			
Arg	Leu	His	Arg	Val	Arg	Leu	Ser	Asp	Ala	Thr	Thr	Ile	Ala	Pro	Phe
	210					215						220			

Gly Ser Val Val Thr Tyr Gln Phe Thr Gly Pro Ala Pro Asp Gly Ala
 225 230 235 240
 Arg Val Asp Ser Glu Gly Asn Val Tyr Val Ala Ile Ser Gly Gln Gly
 245 250 255
 Arg Ile Met Val Phe Asn Arg Asn Gly Leu Pro Ile Gly Gln Ile Val
 260 265 270
 Leu Pro Asp Arg Asp Lys Gly Arg Asn Leu Lys Ser Thr Ser Leu Ala
 275 280 285
 Ile Arg Pro Gly His His Glu Leu Phe Ile Val Thr Asn Ser Gly Thr
 290 295 300
 Glu Pro Gly Gly Ala Met Ile Phe Arg Ser Gly Ala Phe Ala Pro Ala
 305 310 315 320
 Pro Leu Pro Phe
 325

<210> 6932

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 6932

Arg Leu Ser Gly Lys Pro Ala Trp Cys Lys Ala Thr Cys Pro Arg Glu
 1 5 10 15
 Lys Gly Asp Lys Ile Glu Ser Thr Cys Gln Ile Val Ile Arg Cys Ala
 20 25 30
 Leu Phe Gly Arg Val Lys Phe Pro Met Lys Asn Ile Pro Phe Trp Gln
 35 40 45
 Ser Lys Thr Phe Asp Asp Met Thr Asp Ala Glu Trp Glu Ser Leu Cys
 50 55 60
 Asp Gly Cys Gly Gln Cys Cys Leu His Lys Leu Met Asp Glu Asp Ser
 65 70 75 80
 Asp Glu Ile Tyr Phe Thr Asn Val Ala Cys Lys Gln Leu Asn Ile Lys
 85 90 95
 Thr Cys Gln Cys Arg Asn Tyr Glu Arg Arg Phe Glu Tyr Glu Pro Asp
 100 105 110
 Cys Ile Lys Leu Thr Arg Glu Asn Leu Pro Thr Phe Glu Trp Leu Pro
 115 120 125
 His Thr Cys Ala Tyr Arg Leu Leu Ala Glu Gly Lys Asp Leu Pro Thr
 130 135 140
 Trp His Pro Leu Leu Thr Gly Ser Lys Ala Ala Met His Gly Glu Arg
 145 150 155 160
 Ile Ser Val Arg His Ile Ala Val Lys Glu Ser Glu Val Arg Asp Trp
 165 170 175
 Glu Asp His Ile Met Asn His Pro Asn Arg
 180 185

<210> 6933

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6933

Asp Lys Thr Ser Val Tyr Ala Lys Met Ala Ala Glu Arg Gly Ile Lys
 1 5 10 15
 Pro Phe Val Asn Phe Ile Lys Met Lys Arg Arg Ser Leu Phe Ser Val
 20 25 30
 Ser Ala Ala Leu Ser Ala Ser Ala Arg Leu Trp Tyr Asp Glu Cys Asn
 35 40 45
 Leu Leu Lys Leu Cys Asn Gly Asn Leu Thr Met Val Ile Lys Ala Gln
 50 55 60
 Ser Pro Ala Gly Phe Ala Glu Glu Tyr Ile Ile Glu Ser Ile Trp Asn

65					70					75				80
Asn	Arg	Phe	Pro	Ala	Gly	Ser	Ile	Leu	Pro	Ala	Glu	Arg	Glu	Leu
				85					90				95	
Glu	Leu	Ile	Gly	Val	Thr	Arg	Thr	Thr	Leu	Arg	Glu	Val	Leu	Gln
			100					105					110	
Leu	Ala	Arg	Asp	Gly	Trp	Leu	Thr	Ile	Gln	His	Gly	Lys	Pro	Thr
		115					120					125		
Val	Asn	Asn	Phe	Trp	Glu	Thr	Ser	Gly	Leu	Asn	Ile	Leu	Glu	Thr
	130					135					140			
Ala	Arg	Leu	Asp	His	Glu	Ser	Val	Pro	Gln	Leu	Ile	Asp	Asn	Leu
145					150				155					160
Ser	Val	Arg	Thr	Asn	Ile	Ala	Thr	Ile	Phe	Ile	Arg	Thr	Ala	Phe
				165					170					175
Gln	His	Pro	Glu	Asp	Ala	Leu	Lys	Val	Leu	Ala	Thr	Ala	Asn	Glu
			180					185					190	
Glu	Asp	His	Ala	Asp	Ala	Phe	Ala	Thr	Leu	Asp	Tyr	Asn	Val	Phe
	195						200					205		
Gly	Leu	Ala	Phe	Ala	Ser	Gly	Asn	Pro	Val	Tyr	Gly	Leu	Ile	Leu
	210				215						220			
Gly	Met	Lys	Gly	Leu	Tyr	Thr	Arg	Ile	Gly	Arg	His	Tyr	Phe	Ala
225					230					235				240
Pro	Glu	Ala	Arg	Ser	Leu	Ala	Leu	Gly	Phe	Tyr	His	Lys	Leu	Ser
				245					250					255
Leu	Cys	Thr	Glu	Gly	Leu	His	Asp	Gln	Val	Tyr	Glu	Thr	Val	Arg
			260					265					270	
Tyr	Gly	His	Asp	Ser	Gly	Glu	Ile	Trp	His	Arg	Met	Gln	Lys	Thr
	275						280					285		
Pro	Gly	Asp	Leu	Ala	Ile	Gln	Gly	Arg						
	290					295								

<210> 6934

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6934

Leu	Asp	Asp	Cys	Ser	Phe	Ala	His	Asn	Gly	Val	Ala	Met	Arg	Val
1			5						10					15
Ile	Leu	Gly	Ser	Gly	Val	Val	Gly	Val	Thr	Ser	Ala	Trp	Tyr	Leu
			20					25					30	
Gln	Ala	Gly	His	Glu	Val	Thr	Val	Ile	Asp	Arg	Glu	Ser	Gly	Pro
	35						40					45		
Leu	Glu	Thr	Ser	Ala	Ala	Asn	Ala	Gly	Gln	Ile	Ser	Pro	Gly	Tyr
	50					55					60			
Ala	Pro	Trp	Ala	Ala	Pro	Gly	Val	Pro	Leu	Lys	Ala	Ile	Lys	Trp
65					70				75					80
Phe	Gln	Arg	His	Ala	Pro	Leu	Ala	Ile	Ser	Leu	Asp	Gly	Thr	Gln
				85					90					95
Gln	Leu	Lys	Trp	Met	Trp	Gln	Met	Leu	Arg	Asn	Cys	Asp	Thr	Arg
			100					105					110	
Tyr	Met	Glu	Asn	Lys	Gly	Arg	Met	Val	Arg	Leu	Ala	Glu	Tyr	Ser
	115						120					125		
Asp	Cys	Leu	Lys	Ala	Leu	Arg	Ala	Ser	Thr	Gly	Ile	Glu	Tyr	Glu
	130					135					140			
Arg	Gln	Gly	Gly	Thr	Leu	Gln	Leu	Phe	Arg	Thr	Ala	Gln	Gln	Tyr
145					150				155					160
Asn	Ala	Thr	Arg	Asp	Ile	Ala	Val	Leu	Glu	Asp	Ala	Gly	Val	Pro
				165					170					175
Gln	Leu	Leu	Glu	Ala	Ser	Gln	Leu	Ala	Gln	Val	Glu	Pro	Ala	Leu
			180					185					190	
Glu	Val	Ala	His	Lys	Leu	Thr	Gly	Gly	Leu	Arg	Leu	Pro	Asn	Asp

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<210> 6935
<211> 360
<212> PRT
<213> Enterobacter cloacae
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<400> 6935															
Gly 1	Val	Ala	Met	Ser 5	Arg	Pro	Ile	Leu	Ala 10	Gln	Leu	Asp	Leu	Gln	Ala 15
Leu	Lys	Asp	Asn 20	Leu	Gln	Ile	Val	Arg 25	Arg	Ala	Ala	Pro	Gly 30	Ser	Arg
Val	Trp	Ser 35	Val	Val	Lys	Ala	Asn 40	Ala	Tyr	Gly	His	Gly 45	Ile	Asp	Arg
Ile	Trp 50	Ser	Ala	Leu	Gly	Ala 55	Thr	Asp	Gly	Phe	Ala 60	Leu	Leu	Asn	Leu
Glu 65	Glu	Ala	Ile	Leu	Leu	Arg 70	Glu	Arg	Gly	Trp 75	Lys	Gly	Pro	Ile	Leu 80
Leu	Leu	Glu	Gly	Phe 85	Phe	His	Ala	Gln	Asp 90	Leu	Pro	Leu	Leu	Asp 95	Lys
Tyr	Arg	Leu	Thr 100	Thr	Ser	Val	His	Ser	Asn 105	Trp	Gln	Ile	Lys 110	Ala	Ile
Gln	Asp	Ala 115	Lys	Leu	His	Ala	Pro 120	Leu	Asp	Ile	Tyr	Leu 125	Lys	Val	Asn
Ser	Gly 130	Met	Asn	Arg	Leu	Gly 135	Phe	Gln	Pro	Glu	Arg	Val 140	His	Thr	Val
Trp 145	Gln	Gln	Leu	Arg	Ala 150	Leu	Lys	Asn	Val	Gly 155	Glu	Met	Thr	Leu	Met 160
Ala	His	Phe	Ala	Asp 165	Ala	Glu	Lys	Pro	Asp 170	Gly	Ile	Ala	Asp	Ala 175	Met
Val	Arg	Ile	Glu	Gln	Ala	Ala	Glu	Gly	Leu	Asp	Cys	Pro	Arg	Ser	Leu

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<210> 6936
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<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6937
<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6937

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Pro Arg Asp Ser Leu Ser Ser Ile Glu Glu Pro Ser Gly Val Ser Ser
1      5      10      15
Tyr Ser Glu Gln Phe Leu Lys Gln Asn Pro Leu Ala Val Leu Gly Val
20      25      30
Leu Arg Asp Leu Lys Lys Gly Glu Val Pro Leu Arg Ile Asn Trp Ser
35      40      45
Thr Ser Gln Phe Ile Ser Lys Ile Leu Asp Val Thr Ala Glu His Leu
50      55      60
Ile Val Asp Leu Gly Ser Gln Ser Asp Glu Asn Arg Ala Ala Leu Gln
65      70      75      80
Ala Glu Asn Leu Ser Val Met Ala Glu Thr Gln Gly Ala Lys Val Glu
85      90      95
Phe Val Leu Pro Arg Leu Thr Ala Ile Ala Tyr Gln Asp Leu Pro Ala
100     105     110
Phe Ile Ala Pro Leu Pro Ala Asn Leu Trp Phe Val Gln Arg Arg Glu
115     120     125
Phe Phe Arg Ile Ser Ala Pro Leu His Pro Ala Tyr Phe Cys Lys Ala
130     135     140
Lys Met Pro Asp Lys Lys Glu Ile Arg Phe Arg Leu Phe Asp Leu Ser
145     150     155     160
Leu Gly Gly Met Gly Ala Leu Met Asp Thr Pro Lys Pro Glu Gly Leu
165     170     175
Val Glu Gly Met Arg Phe Ser Gln Ile Glu Leu Asp Met Gly Gly Trp
180     185     190
Gly Arg Phe Trp Phe Asp Ala Gln Leu Ile Ala Ile Ser Glu Arg Lys
195     200     205
Val Val Asp Ser Lys Asn Glu Thr Ile Thr Thr Pro Arg Leu Ser Phe
210     215     220
Arg Phe Leu Asn Val Gly Pro Gly Ala Glu Arg Glu Leu Gln Arg Ile
225     230     235     240
Ile Phe Ser Leu Glu Arg Glu Ala Arg Glu Arg Ala Asn Lys Val Arg
245     250     255

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<210> 6938

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6938

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Ile Leu Ile Gln Gln Gly Ile Ala Met Pro Gln Phe His Leu Ile Ala
1      5      10      15
Pro Ser Gly Tyr Cys Ile Asn Gln Glu Ala Ala Gln Arg Gly Val Gln
20      25      30
Arg Leu Leu Glu Met Gly His Gln Val Glu Asn Gln Thr Ile Ile Pro
35      40      45
Arg Arg Met Gln Arg Phe Ala Gly Thr Glu Ala Gln Arg Leu Ser Asp
50      55      60
Ile Asn Ser Leu Ala Thr Leu Glu Gly Glu Asn Thr Ile Val Leu Ala
65      70      75      80
Val Arg Gly Gly Tyr Gly Ala Ser Arg Leu Glu Ser Ile Asp Trp
85      90      95
Ala Gly Leu Ala Ala Arg Gln Gln Gln Asp Pro Leu Leu Ile Cys Gly
100     105     110
His Ser Asp Phe Thr Ala Ile Gln Leu Gly Leu Leu Ala Leu His Asn
115     120     125

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Val Ile Thr Phe Ser Gly Pro Met Leu Ala Gly Asn Phe Gly Ala Pro
 130 135 140
 Glu Leu Asp Ala Phe Thr Gln Asp His Phe Trp Arg Ala Leu Gln Asn
 145 150 155 160
 Pro Thr Phe Thr Ile Glu Trp Gln Gly Asn Gly Pro His Trp Glu Cys
 165 170 175
 Glu Gly Gln Leu Trp Gly Gly Asn Leu Ala Met Leu Val Ser Leu Ile
 180 185 190
 Gly Thr Pro Trp Leu Pro Gln Ile Thr Asp Gly Ile Leu Val Leu Glu
 195 200 205
 Asp Ile Asn Glu His Pro Phe Arg Val Glu Arg Met Leu Leu Gln Leu
 210 215 220
 Ser His Ala Gly Ile Leu Asp Arg Gln Ser Ala Ile Val Leu Gly Ser
 225 230 235 240
 Phe Ser Gly Ser Ala Pro Asn Asp Tyr Asp Ala Gly Tyr Ser Leu Glu
 245 250 255
 Thr Met Ile Asp Phe Ile Arg Ser Arg Leu Asp Ile Pro Val Ile Ala
 260 265 270
 Gly Leu Asp Phe Gly His Glu Gln Gln Thr Val Thr Leu Pro Leu Gly
 275 280 285
 Ala Arg Ala His Leu Val His Asp Asn Ser Gly Ser Arg Leu Thr Ile
 290 295 300
 Ser Gly His Pro Val Leu Lys Ala
 305 310

<210> 6939

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 6939

Ala Cys Ser Arg Glu Met Ile Met Leu Arg Phe Leu Asn Gln Cys Ser
 1 5 10 15
 Arg Gly Arg Gly Ala Trp Leu Leu Met Ala Leu Thr Ala Phe Ala Leu
 20 25 30
 Glu Met Val Ala Leu Trp Phe Gln His Val Met Gly Leu Lys Pro Cys
 35 40 45
 Val Leu Cys Ile Tyr Glu Arg Cys Ala Leu Phe Gly Ile Met Gly Ala
 50 55 60
 Gly Leu Val Gly Ala Ile Ala Pro Lys Ser Pro Leu Arg Tyr Ala Ala
 65 70 75 80
 Ile Ala Ile Trp Leu Tyr Ser Ala Gly Lys Gly Ile Ala Leu Ala Trp
 85 90 95
 Glu His Thr Gln Met Gln Leu His Pro Ser Pro Phe Met Thr Cys Asp
 100 105 110
 Phe Ala Ala Arg Phe Pro Ser Trp Leu Pro Leu Asp Lys Trp Leu Pro
 115 120 125
 Gln Val Phe Val Ala Ser Gly Asp Cys Ser Val Arg Gln Trp Glu Phe
 130 135 140
 Leu Thr Leu Glu Met Pro Gln Trp Leu Val Gly Ile Phe Val Ala Tyr
 145 150 155 160
 Phe Val Val Ala Leu Leu Val Leu Ile Ala Gln Pro Phe Lys Pro Lys
 165 170 175
 Lys Arg Asp Leu Phe Gly Arg
 180

<210> 6940

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 6940

Gly	Gly	Ser	Lys	Thr	Thr	Leu	Gly	Ala	Thr	Ala	Ile	Ile	Ser	Leu	Phe
1				5					10					15	
Ile	Leu	Gly	Ser	Ile	Leu	Val	Thr	Phe	Ser	Ile	Leu	Leu	Ser	Ser	Phe
			20					25					30		
Ser	Ser	Arg	Leu	Gly	Ile	Pro	Ile	Leu	Val	Ile	Phe	Leu	Ala	Ile	Gly
		35					40					45			
Met	Leu	Ala	Gly	Ile	Asp	Gly	Ile	Gly	Gly	Ile	Pro	Phe	Asp	Asn	Tyr
	50					55					60				
Pro	Phe	Ala	Tyr	Met	Val	Ser	Asn	Leu	Ala	Leu	Ala	Val	Ile	Leu	Leu
65					70					75					80
Asp	Gly	Gly	Met	Arg	Thr	Gln	Ala	Ser	Ser	Phe	Arg	Val	Ala	Leu	Gly
				85					90					95	
Pro	Ala	Leu	Ser	Leu	Ala	Thr	Val	Gly	Val	Leu	Ile	Thr	Ser	Gly	Leu
			100					105						110	
Thr	Gly	Met	Met	Ala	Ala	Trp	Leu	Phe	Asn	Leu	Asp	Ile	Met	Glu	Gly
		115					120					125			
Leu	Leu	Ile	Gly	Ala	Ile	Val	Gly	Ser	Thr	Asp	Ala	Ala	Ala	Val	Phe
	130					135					140				
Ser	Leu	Leu	Gly	Gly	Lys	Gly	Leu	Asn	Glu	Arg	Val	Gly	Ser	Thr	Leu
145					150					155					160
Glu	Ile	Glu	Ser	Gly	Ser	Asn	Asp	Pro	Met	Ala	Val	Phe	Leu	Thr	Ile
				165					170					175	
Thr	Leu	Ile	Glu	Met	Ile	Gln	Gln	His	Glu	Thr	Gly	Leu	Ser	Trp	Met
			180					185						190	
Phe	Ala	Trp	His	Ile	Leu	Gln	Gln	Phe	Gly	Leu	Gly	Ile	Ile	Ile	Gly
		195					200					205			
Leu	Gly	Gly	Gly	Tyr	Leu	Leu	Gln	Gln	Thr	Ile	Asn	Arg	Ile	Thr	Leu
	210					215					220				
Pro	Ser	Gly	Leu	Tyr	Pro	Leu	Leu	Ala	Leu	Ser	Gly	Gly	Ile	Leu	Ile
225					230					235					240
Phe	Ala	Val	Thr	Thr	Ala	Leu	Asp	Gly	Ser	Gly	Ile	Leu	Ala	Val	Tyr
				245					250					255	
Leu	Cys	Gly	Phe	Leu	Leu	Gly	Asn	Arg	Pro	Ile	Arg	Asn	Arg	His	Ala
			260					265					270		
Ile	Leu	Gln	Asn	Phe	Asp	Gly	Leu	Ala	Trp	Leu	Ala	Gln	Ile	Ala	Met
		275					280					285			
Phe	Leu	Val	Leu	Gly	Leu	Leu	Val	Thr	Pro	Ser	Asp	Leu	Leu	Pro	Ile
	290					295					300				
Ala	Val	Pro	Ala	Leu	Leu	Leu	Ser	Ala	Trp	Met	Ile	Phe	Phe	Ala	Arg
305					310					315					320
Pro	Leu	Ser	Val	Phe	Ala	Gly	Leu	Leu	Pro	Phe	Arg	Gly	Phe	Asn	Leu
				325					330					335	
Arg	Glu	Arg	Ile	Phe	Ile	Ser	Trp	Val	Gly	Leu	Arg	Gly	Ala	Val	Pro
			340					345					350		
Ile	Ile	Leu	Ala	Val	Phe	Pro	Met	Met	Ala	Gly	Leu	Asp	Asn	Ala	Arg
		355					360					365			
Leu	Phe	Phe	Asn	Val	Ala	Phe	Phe	Val	Val	Leu	Val	Ser	Leu	Leu	Phe
	370					375					380				
Gln	Gly	Thr	Ser	Leu	Gly	Trp	Ala	Ala	Lys	Lys	Ala	Lys	Val	Val	Val
385					390					395					400
Pro	Pro	Ile	Gly	Trp	Pro	Val	Ser	Arg	Val	Gly	Leu	Asp	Ile	His	Pro
				405					410					415	
Glu	Asn	Pro	Trp	Glu	Gln	Phe	Val	Tyr	Gln	Leu	Ser	Ala	Asp	Lys	Trp
			420					425					430		
Cys	Val	Gly	Ala	Ser	Leu	Arg	Asp	Leu	His	Met	Pro	Ala	Glu	Thr	Arg
		435					440					445			
Ile	Ala	Ala	Leu	Phe	Arg	Asp	Asn	Ala	Leu	Leu	His	Pro	Thr	Gly	Ser
	450					455					460				
Thr	Arg	Leu	Arg	Glu	Asn	Asp	Ile	Leu	Cys	Val	Ile	Gly	Arg	Glu	Arg
465					470					475					480

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Asp Leu Pro Ala Leu Gly Lys Leu Phe Ser Gln Ser Pro Pro Val Ala
 485 490 495
 Leu Asp Gln Arg Phe Phe Gly Asp Phe Ile Leu Glu Ala Ser Ala Arg
 500 505 510
 Phe Ala Asp Val Ala Leu Ile Tyr Gly Leu Glu Gly Gly Leu Glu Asn
 515 520 525
 Arg Asp Asn Gln Gln Thr Leu Gly Glu Ile Ile Gln Gln Leu Leu Gly
 530 535 540
 Ala Ala Pro Val Val Gly Asp Gln Val Glu Phe Ala Gly Met Ile Trp
 545 550 555 560
 Thr Val Ala Glu Lys Glu Asp Asn Ala Val Arg Lys Val Gly Val Arg
 565 570 575
 Pro Met Glu Glu Glu Ala Glu
 580

<210> 6941

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 6941

Lys Glu Ala Leu Gln Ser Glu Arg Ala Thr Asn Asn Glu Gly Ala Leu
 1 5 10 15
 Met Ala Thr Leu Asp Ser Met Ser Arg Asp Ser Thr Arg Leu Ser Asp
 20 25 30
 Gly Pro Asp Trp Thr Phe Glu Leu Leu Asp Val Tyr Leu Ala Glu Ile
 35 40 45
 Asp Arg Val Ala Lys Leu Tyr Arg Leu Asp Thr Tyr Pro His Gln Ile
 50 55 60
 Glu Val Ile Thr Ser Glu Gln Met Met Asp Ala Tyr Ser Ser Val Gly
 65 70 75 80
 Met Pro Ile Asn Tyr Pro His Trp Ser Phe Gly Lys Lys Phe Ile Glu
 85 90 95
 Thr Glu Arg Leu Tyr Lys His Gly Gln Gln Gly Leu Ala Tyr Glu Ile
 100 105 110
 Val Ile Asn Ser Asn Pro Cys Ile Ala Tyr Leu Met Glu Glu Asn Thr
 115 120 125
 Ile Thr Met Gln Ala Leu Val Met Ala His Ala Cys Tyr Gly His Asn
 130 135 140
 Ser Phe Phe Lys Asn Asn Tyr Leu Phe Arg Ser Trp Thr Asp Ala Ser
 145 150 155 160
 Ser Ile Val Asp Tyr Leu Ile Phe Ala Arg Asn Tyr Ile Thr Asp Cys
 165 170 175
 Glu Glu Arg Tyr Gly Val Asp Glu Val Glu Lys Leu Leu Asp Ser Cys
 180 185 190
 His Ala Leu Met Asn Tyr Gly Val Asp Arg Tyr Lys Arg Pro Gln Lys
 195 200 205
 Ile Ser Leu Gln Glu Glu Lys Ala Arg Gln Lys Ser Arg Glu Glu Tyr
 210 215 220
 Leu Gln Ser Gln Val Asn Met Leu Trp Arg Thr Leu Pro Lys Arg Glu
 225 230 235 240
 Glu Glu Lys Thr Val Ala Glu Ala Arg Arg Tyr Pro Ser Glu Pro Gln
 245 250 255
 Glu Asn Leu Leu Tyr Phe Met Glu Lys Asn Ala Pro Leu Leu Glu Pro
 260 265 270
 Trp Gln Arg Glu Ile Leu Arg Ile Val Arg Lys Val Ser Gln Tyr Phe
 275 280 285
 Tyr Pro Gln Lys Gln Thr Gln Val Met Asn Glu Gly Trp Ala Thr Phe
 290 295 300
 Trp His Tyr Thr Ile Leu Asn His Leu Tyr Asp Glu Gly Lys Val Ser
 305 310 315 320

Glu	Arg	Phe	Met	Met	Glu	Phe	Leu	His	Ser	His	Thr	Asn	Val	Val	Phe
				325					330					335	
Gln	Pro	Ala	Tyr	Asn	Ser	Pro	Trp	Tyr	Ser	Gly	Ile	Asn	Pro	Tyr	Ala
			340					345					350		
Leu	Gly	Phe	Ala	Met	Phe	Gln	Asp	Ile	Lys	Arg	Ile	Cys	Gln	Ser	Pro
		355					360					365			
Thr	Glu	Glu	Asp	Lys	Tyr	Trp	Phe	Pro	Asp	Ile	Ala	Gly	Ser	Asp	Trp
	370					375					380				
Leu	Glu	Thr	Leu	His	Phe	Ala	Met	Arg	Asp	Phe	Lys	Asp	Glu	Ser	Phe
385					390					395					400
Ile	Ser	Gln	Phe	Met	Ser	Pro	Lys	Ile	Met	Arg	Asp	Phe	Arg	Phe	Phe
				405					410					415	
Thr	Val	Leu	Asp	Asp	Arg	Asn	Asn	Phe	Leu	Glu	Ile	Ser	Ala	Ile	
			420				425						430		
His	Asn	Glu	Glu	Gly	Tyr	Arg	Glu	Ile	Arg	Ser	Arg	Leu	Ser	Ser	Gln
		435					440					445			
Tyr	Asn	Leu	Ser	Asn	Leu	Glu	Pro	Asn	Ile	Gln	Val	Trp	Asn	Val	Asp
	450					455					460				
Leu	Arg	Gly	Asp	Arg	Ser	Leu	Thr	Leu	Arg	Tyr	Ile	Pro	His	Asn	Arg
465					470					475					480
Ala	Pro	Leu	Asp	Lys	Gly	Arg	Lys	Glu	Val	Leu	Lys	His	Val	His	Arg
				485					490					495	
Leu	Trp	Gly	Phe	Asp	Val	Leu	Leu	Glu	Gln	Gln	Asn	Glu	Asp	Gly	Ser
			500					505					510		
Val	Glu	Leu	Leu	Glu	Arg	Cys	Pro	Ala	Arg	Leu	Asn	Thr	Leu		
		515					520					525			

<210> 6942

<211> 540

<212> PRT

<213> Enterobacter cloacae

<400> 6942

Cys	Leu	Val	Leu	Phe	Asp	Gly	Glu	Arg	Thr	Ser	Val	Val	Glu	Ile	Ser
1				5					10					15	
Phe	Gly	Arg	Ala	Leu	Trp	Arg	Asn	Phe	Leu	Gly	Gln	Ser	Pro	Asp	Trp
			20					25					30		
Tyr	Lys	Leu	Thr	Leu	Leu	Val	Phe	Leu	Val	Val	Asn	Pro	Val	Ile	Phe
		35					40					45			
Leu	Leu	Asp	Pro	Phe	Val	Ala	Gly	Trp	Met	Leu	Val	Ala	Glu	Phe	Ile
	50					55				60					
Phe	Thr	Leu	Ala	Met	Ala	Leu	Lys	Cys	Tyr	Pro	Leu	Leu	Pro	Gly	Gly
65					70					75					80
Leu	Leu	Ala	Leu	Glu	Ala	Val	Val	Ile	Gly	Met	Thr	Ser	Ala	Glu	His
				85					90					95	
Val	Lys	Asn	Glu	Ile	Ala	Ser	Asn	Leu	Glu	Val	Leu	Leu	Leu	Leu	Ile
		100						105					110		
Phe	Met	Val	Ala	Gly	Ile	Tyr	Phe	Met	Lys	Gln	Leu	Leu	Leu	Phe	Ile
		115					120					125			
Phe	Thr	Arg	Leu	Leu	Leu	Ser	Ile	Pro	Ser	Lys	Thr	Leu	Leu	Ser	Leu
	130					135					140				
Ala	Phe	Cys	Leu	Ala	Ala	Ala	Phe	Val	Ser	Ala	Phe	Leu	Asp	Ala	Leu
145					150					155					160
Thr	Val	Val	Ala	Val	Val	Ile	Ser	Val	Ala	Val	Gly	Phe	Tyr	Gly	Ile
				165					170					175	
Tyr	His	Arg	Val	Ala	Ser	Ser	Arg	Pro	Gly	Asp	Asn	Leu	Gln	Asp	Asp
			180					185					190		
Ser	His	Val	Glu	Ala	His	Asn	Arg	Asp	Val	Leu	Glu	Gln	Phe	Arg	Ala
		195					200					205			
Phe	Leu	Arg	Ser	Leu	Met	Met	His	Ala	Gly	Val	Gly	Thr	Ala	Leu	Gly
	210					215						220			

Gly Val Met Thr Met Val Gly Glu Pro Gln Asn Leu Ile Ile Ala Lys
 225 230 235 240
 Ala Ala Glu Trp His Phe Gly Glu Phe Phe Leu Arg Met Ala Pro Val
 245 250 255
 Ser Val Pro Val Leu Val Cys Gly Leu Ala Thr Cys Val Leu Val Glu
 260 265 270
 Lys Phe Asn Leu Phe Gly Tyr Gly Ala Thr Leu Pro Asp Gln Val Arg
 275 280 285
 Gln Glu Leu His Lys Phe Asp Glu Gln Ser Arg Lys Gln Arg Thr Arg
 290 295 300
 Gln Glu Thr Leu Arg Leu Ile Ala Gln Gly Phe Ile Gly Val Trp Leu
 305 310 315 320
 Ile Ala Ala Leu Ala Phe His Leu Ala Glu Val Gly Leu Ile Gly Leu
 325 330 335
 Ser Val Ile Ile Leu Ala Thr Ser Leu Gly Gly Val Thr Asp Glu His
 340 345 350
 Ala Ile Gly Lys Ala Phe Thr Glu Ala Leu Pro Phe Thr Ala Leu Leu
 355 360 365
 Ala Val Phe Phe Ala Val Val Ala Val Ile Ile Asp Gln His Leu Phe
 370 375 380
 Ala Pro Ile Ile Ala Phe Val Leu Gln Ala Thr Pro Asp Ser Gln Leu
 385 390 395 400
 Thr Leu Phe Tyr Leu Phe Asn Gly Leu Leu Ser Ser Ile Ser Asp Asn
 405 410 415
 Val Phe Val Gly Thr Val Tyr Ile Asn Glu Ala Lys Ala Ala Met Glu
 420 425 430
 Gln Gly Ile Val Ser Ser Glu Gln Phe Glu Leu Leu Ala Val Ala Ile
 435 440 445
 Asn Thr Gly Thr Asn Leu Pro Phe Arg Gly Asn Pro Glu Arg Ser Gly
 450 455 460
 Gly Ile Pro Leu Pro Ala Asp Leu Gly Ala Gly Thr Thr His Thr Thr
 465 470 475 480
 Phe Leu Trp Lys Asn Gly Leu Asp Gly Ala Ala Val Tyr Ala Gly Ala
 485 490 495
 Tyr Pro Gly Trp Phe Thr Val His Gln Asn Tyr Ser Arg Ser Leu Tyr
 500 505 510
 Ala Met Val Ile Ala Ser Arg Tyr Thr Cys Gly Ala Leu Lys Phe Val
 515 520 525
 Tyr Thr Ala Leu Ser Lys His Val Pro Gly Lys
 530 535 540

<210> 6943

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6943

Arg Cys Ser Ile Cys Leu Thr Val Cys Cys Pro Leu Tyr Pro Ile Thr
 1 5 10 15
 Ser Leu Ser Gly Arg Tyr Thr Ser Met Arg Pro Lys Pro Arg Trp Ser
 20 25 30
 Lys Gly Leu Ser Ala Val Asn Ser Ser Ser Cys Trp Arg Trp Arg Ser
 35 40 45
 Thr Pro Glu Pro Thr Ser Pro Ser Val Ala Thr Pro Asn Gly Gln Ala
 50 55 60
 Ala Phe Leu Phe Leu Leu Thr Ser Ala Leu Ala Pro Leu Ile Arg Leu
 65 70 75 80
 Ser Tyr Gly Arg Met Val Trp Met Ala Leu Pro Tyr Thr Leu Val Leu
 85 90 95
 Thr Leu Val Gly Leu Leu Cys Ile Lys Ile Thr Leu Val Pro Cys Thr
 100 105 110

Gln Trp Leu Leu Gln Ala Gly Ile Leu Ala Ala His
 115 120 125

<210> 6944

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6944

Asn Ser Phe Thr Leu Arg Cys Leu Ser Met Phe Gln Gly Asn Asp Tyr
 1 5 10 15
 Val Ala Ile Phe Glu Pro Val Leu Thr Arg Ser Arg Ser Val Val Val
 20 25 30
 Asp Gly Pro Asp Arg Leu Cys Ala Gly Asn Gly Arg Ala Val Val Ser
 35 40 45
 Ala Cys Asp Gly Ala Glu Thr Leu Arg Thr Val Tyr Leu
 50 55 60

<210> 6945

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6945

Ile Met Thr Asp Tyr Leu Leu Leu Phe Val Gly Thr Val Leu Val Asn
 1 5 10 15
 Asn Phe Val Leu Val Lys Phe Leu Gly Leu Cys Pro Phe Met Gly Val
 20 25 30
 Ser Lys Lys Leu Glu Thr Ala Met Gly Met Gly Leu Ala Thr Thr Phe
 35 40 45
 Val Met Thr Met Ala Ser Ile Cys Ala Trp Leu Ile Asp Thr Trp Ile
 50 55 60
 Leu Ile Pro Leu Asp Met Leu Tyr Leu Arg Thr Leu Ala Phe Ile Leu
 65 70 75 80
 Val Ile Ala Val Val Val Gln Phe Thr Glu Met Val Val Arg Lys Thr
 85 90 95
 Ser Pro Ala Leu Tyr Arg Leu Leu Gly Ile Phe Leu Pro Leu Ile Thr
 100 105 110
 Thr Asn Cys Ala Val Leu Gly Val Ala Leu Leu Asn Ile Asn Leu Gly
 115 120 125
 His Asn Phe Leu Gln Ser Ala Leu Tyr Gly Phe Ser Ala Ala Val Gly
 130 135 140
 Phe Ser Phe Val Met Val Leu Phe Ala Ser Ile Arg Glu Arg Leu Ala
 145 150 155 160
 Ala Ala Asp Ile Pro Ala Pro Phe Arg Gly Asn Ala Ile Ala Leu Val
 165 170 175
 Thr Ala Gly Leu Met Ser Leu Ala Phe Met Gly Phe Ser Gly Leu Val
 180 185 190
 Lys Leu
 195

<210> 6946

<211> 702

<212> PRT

<213> Enterobacter cloacae

<400> 6946

Asn Tyr Ala Arg Leu Lys Arg Leu Pro Lys Thr Gly Ser Gly Thr Phe
 1 5 10 15
 Arg Pro Phe Arg Phe Ala Ile Phe Leu Trp Asn Asn Met Leu Lys Leu
 20 25 30

Phe	Ser	Ala	Phe	Arg	Lys	Glu	Lys	Ile	Trp	Asp	Phe	Asp	Gly	Gly	Ile
		35					40					45			
His	Pro	Pro	Glu	Met	Lys	Ser	Gln	Ser	Asn	Gly	Thr	Pro	Leu	Arg	Gln
	50					55					60				
Ile	Pro	Leu	Ala	Thr	Arg	Tyr	Val	Met	Pro	Leu	Lys	Gln	His	Ile	Gly
65					70					75					80
Ala	Glu	Gly	Glu	Leu	Cys	Val	Lys	Glu	Gly	Asp	Ser	Val	Leu	Arg	Gly
				85					90					95	
Gln	Pro	Leu	Thr	Phe	Gly	Arg	Gly	Arg	Met	Leu	Pro	Ile	His	Ala	Pro
			100					105					110		
Thr	Ser	Gly	Lys	Val	Val	Ala	Val	Ala	Pro	His	Thr	Val	Ala	His	Pro
		115					120					125			
Ser	Ala	Leu	Ser	Glu	Leu	Ser	Val	Ile	Ile	Glu	Ala	Asp	Gly	Glu	Asp
	130					135					140				
Arg	Trp	Ile	Glu	Arg	Asp	Gly	Trp	Ser	Asp	Tyr	Arg	Ser	His	Ser	Arg
145					150					155					160
Glu	Ala	Leu	Ile	Glu	Arg	Ile	His	Gln	Phe	Gly	Val	Ala	Gly	Leu	Gly
				165					170					175	
Gly	Ala	Gly	Phe	Pro	Thr	Gly	Ala	Lys	Leu	His	Gly	Gly	Gly	Asp	Lys
			180					185					190		
Ile	Glu	Thr	Leu	Ile	Ile	Asn	Ala	Ala	Glu	Cys	Glu	Pro	Tyr	Ile	Thr
		195					200					205			
Ala	Asp	Asp	Arg	Leu	Met	Gln	Asp	Cys	Ala	Ala	Gln	Val	Val	Glu	Gly
	210					215					220				
Ile	Arg	Ile	Leu	Ala	His	Ile	Leu	Gln	Pro	Arg	Glu	Val	Leu	Ile	Gly
225					230					235					240
Ile	Glu	Asp	Asn	Lys	Pro	Gln	Ala	Ile	Ser	Met	Leu	Arg	Ala	Val	Leu
				245					250					255	
Ala	Asp	Ser	His	Asp	Ile	Ala	Leu	Arg	Val	Ile	Pro	Thr	Lys	Tyr	Pro
			260					265					270		
Ser	Gly	Gly	Ala	Lys	Gln	Leu	Thr	Gln	Ile	Leu	Thr	Gly	Lys	Gln	Val
		275					280					285			
Pro	His	Gly	Gly	Arg	Ser	Ser	Asp	Ile	Gly	Val	Leu	Met	Gln	Asn	Val
	290					295					300				
Gly	Thr	Ala	Tyr	Ala	Val	Lys	Arg	Ala	Val	Ile	Asp	Gly	Glu	Pro	Leu
305					310					315					320
Thr	Glu	Arg	Val	Val	Thr	Leu	Thr	Gly	Glu	Ser	Val	Ser	Arg	Pro	Gly
				325				330						335	
Asn	Ile	Trp	Ala	Arg	Leu	Gly	Thr	Pro	Val	Arg	His	Leu	Leu	Glu	Gln
			340					345					350		
Ala	Gly	Phe	Cys	Pro	Gly	Asn	Asp	Gln	Leu	Val	Ile	Met	Gly	Gly	Pro
		355					360					365			
Leu	Met	Gly	Phe	Thr	Leu	Pro	Trp	Leu	Asp	Val	Pro	Val	Val	Lys	Ile
	370					375					380				
Thr	Asn	Cys	Leu	Leu	Ala	Pro	Ser	Leu	Thr	Glu	Met	Gly	Glu	Thr	Gln
385					390					395					400
Glu	Glu	Lys	Gly	Cys	Ile	Arg	Cys	Ser	Ala	Cys	Ala	Asp	Ala	Cys	Pro
				405					410					415	
Ala	Asp	Leu	Leu	Pro	Gln	Gln	Leu	Tyr	Trp	Tyr	Ser	Lys	Gly	Gln	Leu
			420					425					430		
His	Asp	Lys	Ala	Gln	Ala	His	Asn	Leu	Ala	Asp	Cys	Ile	Glu	Cys	Gly
		435					440					445			
Ala	Cys	Ala	Trp	Val	Cys	Pro	Ser	Asn	Ile	Pro	Leu	Val	Gln	Tyr	Phe
	450					455					460				
Arg	Gln	Glu	Lys	Ala	Glu	Ile	Tyr	Ala	Ile	Ser	Met	Glu	Glu	Lys	Arg
465					470					475					480
Ala	Ala	Glu	Ala	Lys	Ala	Arg	Phe	Glu	Ala	Arg	Gln	Ala	Arg	Leu	Glu
				485				490						495	
Arg	Glu	Lys	Gln	Ala	Arg	Gln	Glu	Arg	His	Lys	Gln	Ala	Ala	Val	Gln
			500					505				510			
Pro	Ala	Ala	Lys	Asp	Gln	Asp	Ala	Ile	Asn	Ala	Ala	Leu	Ala	Arg	Val

	515		520		525										
Arg	Glu	Lys	Lys	Ala	Thr	Ala	Ala	Gln	Thr	Val	Val	Ile	Ala	Pro	Gly
	530					535					540				
Glu	Lys	Pro	Asp	Asn	Ser	Glu	Ala	Ile	Ala	Ala	Arg	Glu	Ala	Arg	Lys
545					550						555				560
Ala	Glu	Ala	Arg	Ala	Arg	Gln	Ala	Glu	Lys	Ala	Gln	Asn	Ala	Lys	Pro
				565						570				575	
Glu	Ala	Asp	Ile	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala
			580						585					590	
Arg	Ala	Lys	Ala	Arg	Lys	Ala	Gly	Gln	Gln	Thr	Val	Val	Val	Glu	Gln
		595					600					605			
Glu	Ala	Thr	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala	Arg
	610					615					620				
Ala	Lys	Ala	Arg	Lys	Ala	Ala	Gln	Leu	Gln	Pro	Ala	Glu	Glu	Ser	Glu
625					630					635					640
Ala	Pro	Val	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala	Arg
				645						650				655	
Ala	Lys	Ala	Arg	Lys	Ala	Ala	Gln	Gln	Asp	Glu	Leu	Pro	Ala	Ala	Ala
			660						665					670	
Asn	Asp	Asp	Pro	Arg	Lys	Ala	Ala	Val	Ala	Ala	Ala	Ile	Ala	Arg	Val
		675						680					685		
Gln	Ala	Lys	Lys	Ala	Ala	Gln	Gln	Ala	Val	Asn	Glu	Asp			
	690					695						700			

<210> 6947

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6947

Met	Val	Phe	Arg	Ile	Ala	Ser	Ser	Pro	Tyr	Thr	His	Asn	Gln	Arg	Gln
1				5					10					15	
Thr	Ser	Arg	Ile	Met	Met	Leu	Val	Cys	Leu	Ala	Ala	Leu	Pro	Gly	Ile
			20					25					30		
Ala	Val	Gln	Cys	Trp	Phe	Phe	Gly	Trp	Gly	Thr	Leu	Phe	Gln	Leu	Val
		35					40					45			
Leu	Gly	Cys	Ala	Ser	Ala	Val	Ala	Ala	Glu	Ala	Ala	Ile	Leu	Lys	Leu
	50					55					60				
Arg	Lys	Met	Glu	Val	Thr	Arg	Ile	Leu	Ser	Asp	Asn	Ser	Ala	Leu	Leu
65					70					75					80
Thr	Gly	Leu	Leu	Leu	Ala	Ile	Ser	Ile	Pro	Pro	Phe	Ala	Pro	Trp	Trp
				85					90					95	
Met	Val	Val	Leu	Gly	Thr	Val	Phe	Ala	Val	Ile	Ile	Ala	Lys	Gln	Leu
			100					105					110		
Tyr	Gly	Gly	Leu	Gly	His	Asn	Pro	Phe	Asn	Pro	Ala	Met	Ile	Gly	Tyr
	115						120					125			
Val	Val	Leu	Leu	Ile	Ser	Phe	Pro	Val	Gln	Met	Thr	Ser	Trp	Leu	Pro
	130					135						140			
Pro	His	Glu	Ile	Ala	Ala	Thr	Val	Pro	Gly	Phe	Met	Asp	Ala	Leu	His
145					150					155					160
Val	Ile	Phe	Thr	Gly	His	Thr	Ala	Leu	Gly	Ala	Asp	Met	Asn	Ala	Leu
				165					170					175	
Arg	Met	Gly	Val	Asp	Gly	Ile	Ser	Gln	Ala	Thr	Pro	Leu	Asp	Thr	Phe
			180					185					190		
Lys	Thr	Ser	Leu	Arg	Ala	Gly	Gln	Ser	Val	Glu	Gln	Val	Met	Lys	Ser
	195					200						205			
Ser	Ile	Tyr	Ser	Gly	Val	Leu	Ala	Gly	Ala	Gly	Trp	Gln	Trp	Val	Asn
	210					215					220				
Leu	Ala	Tyr	Leu	Leu	Gly	Gly	Ala	Phe	Leu	Leu	Gln	Gln	Lys	Ala	Ile
225					230					235					240
Arg	Trp	His	Ile	Pro	Val	Ser	Phe	Leu	Val	Thr	Leu	Ala	Val	Cys	Ser

				245					250				255				
Thr	Leu	Gly	Trp	Val	Ile	Ser	Pro	Glu	Ser	Leu	Ala	Ser	Pro	Gln	Leu		
			260					265					270				
His	Leu	Leu	Ser	Gly	Ala	Thr	Met	Leu	Gly	Ala	Phe	Phe	Ile	Leu	Thr		
		275					280					285					
Asp	Pro	Val	Thr	Ala	Ser	Thr	Thr	Asn	Arg	Gly	Arg	Leu	Ile	Phe	Gly		
	290					295				300							
Ala	Leu	Ala	Gly	Leu	Leu	Val	Trp	Leu	Ile	Arg	Ser	Phe	Gly	Gly	Tyr		
305					310					315					320		
Pro	Asp	Gly	Val	Ala	Phe	Ala	Val	Leu	Leu	Ala	Asn	Ile	Thr	Val	Pro		
				325					330					335			
Leu	Ile	Asp	Tyr	Thr	Arg	Pro	Arg	Val	Tyr	Gly	His	Arg					
		340					345					350					

<210> 6948

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6948

Gly	Val	Thr	Met	Ser	Gln	Val	Lys	Glu	Val	Ile	Val	Gln	Gly	Leu	Trp		
1			5					10					15				
Lys	Asn	Asn	Ser	Ala	Leu	Val	Gln	Leu	Gly	Leu	Cys	Pro	Leu	Leu			
		20					25					30					
Ala	Val	Thr	Ser	Thr	Ala	Thr	Asn	Ala	Leu	Gly	Leu	Gly	Leu	Ala	Thr		
		35				40					45						
Thr	Leu	Val	Leu	Thr	Leu	Thr	Asn	Phe	Ser	Ile	Ser	Val	Leu	Arg	Arg		
	50				55					60							
Trp	Thr	Pro	Ser	Glu	Ile	Arg	Ile	Pro	Ile	Tyr	Val	Met	Ile	Ile	Ala		
65				70					75					80			
Ser	Val	Val	Ser	Val	Val	Gln	Met	Leu	Ile	Asn	Ala	Tyr	Ala	Phe	Gly		
			85					90						95			
Leu	Tyr	Gln	Ser	Leu	Gly	Ile	Phe	Ile	Pro	Leu	Ile	Val	Thr	Asn	Cys		
		100						105					110				
Ile	Val	Val	Gly	Arg	Ala	Glu	Ala	Phe	Ala	Val	Lys	Asn	Asn	Pro	Ala		
		115				120						125					
Ile	Ser	Ala	Leu	Asp	Gly	Phe	Ser	Ile	Gly	Met	Gly	Ala	Thr	Ala	Ala		
	130				135					140							
Met	Phe	Val	Leu	Gly	Ser	Leu	Arg	Glu	Ile	Leu	Gly	Asn	Gly	Thr	Leu		
145				150					155						160		
Phe	Asp	Gly	Ala	Asp	Ala	Leu	Leu	Gly	Gly	Trp	Ala	Lys	Ser	Leu	Arg		
			165					170						175			
Ile	Glu	Val	Phe	His	Thr	Asp	Thr	Pro	Phe	Leu	Leu	Ala	Met	Leu	Pro		
		180				185							190				
Pro	Gly	Ala	Phe	Ile	Gly	Leu	Gly	Met	Met	Leu	Ala	Leu	Lys	Tyr	Leu		
		195				200						205					
Ile	Asp	Glu	Lys	Arg	Lys	Arg	Arg	Ala	Ala	Glu	Arg	Ser	Val	Gln	Glu		
	210				215						220						
Gly	Ile	Pro	Glu	Lys	Ala	Val											
225					230												

<210> 6949

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 6949

Thr	Pro	Pro	Leu	Ile	Trp	Asp	Val	Lys	Lys	Glu	Val	Tyr	Val	Ser	Thr		
1			5					10						15			
Ala	Asn	Asn	Lys	Pro	Thr	Asp	Glu	Ser	Val	Ser	Leu	Asn	Ala	Phe	Lys		
		20					25						30				

<400> 6950

<400> 6951

<210> 6952

<211> 260
 <212> PRT
 <213> Enterobacter cloacae

<400> 6952

Phe	Ser	Ala	Arg	Trp	Gln	Ala	Cys	Trp	Ser	Gly	Leu	Phe	Ala	Ala	Leu
1				5					10					15	
Ala	Ala	Ile	Arg	Thr	Ala	Trp	His	Leu	Pro	Cys	Cys	Trp	Leu	Thr	Ser
			20					25					30		
Pro	Phe	Arg	Ser	Ser	Thr	Thr	Thr	Arg	Val	His	Ala	Cys	Thr	Val	Ile
		35					40					45			
Ala	Lys	Gly	Arg	Ala	Met	Leu	Lys	Thr	Met	Gln	Lys	His	Gly	Val	Thr
	50					55					60				
Leu	Ala	Ile	Phe	Ala	Ala	Ala	Leu	Thr	Gly	Leu	Thr	Ala	Leu	Val	Asn
65					70					75					80
Glu	Leu	Thr	Lys	Thr	Thr	Ile	Ala	Glu	Gln	Ala	Met	Lys	Gln	Gln	Lys
			85						90					95	
Ala	Leu	Phe	Asp	Gln	Val	Ile	Pro	Ser	Asp	Leu	Tyr	Asp	Asn	Asp	Leu
			100					105					110		
Gln	Lys	Ser	Cys	Phe	Val	Val	Gln	Ala	Pro	Gln	Leu	Gly	Lys	Gly	Pro
		115					120					125			
His	Arg	Val	Tyr	Ile	Ala	Arg	Lys	Gly	Asp	Asn	Pro	Val	Gly	Ala	Val
		130				135					140				
Met	Glu	Ala	Thr	Ala	Pro	Asp	Gly	Tyr	Ser	Gly	Ala	Ile	Gln	Leu	Leu
145					150					155					160
Val	Gly	Ser	Asp	Phe	Ser	Gly	Thr	Val	Leu	Gly	Thr	Arg	Val	Thr	Glu
			165						170					175	
His	His	Glu	Thr	Pro	Gly	Leu	Gly	Asp	Lys	Ile	Glu	Thr	Arg	Leu	Ser
		180						185					190		
Asp	Trp	Ile	Leu	His	Phe	Ala	Gly	Lys	Met	Ile	His	Gly	Glu	Asp	Asp
		195					200					205			
Pro	Ala	Phe	Ala	Val	Lys	Lys	Asp	Gly	Gly	Glu	Phe	Asp	Gln	Phe	Thr
		210				215					220				
Gly	Ala	Thr	Ile	Thr	Pro	Arg	Ala	Val	Val	Asn	Ala	Val	Lys	Arg	Ala
225					230					235					240
Gly	Leu	Tyr	Ala	Glu	Thr	Leu	Pro	Ala	Gln	Ile	Asn	His	Leu	Ser	Thr
				245					250					255	
Cys	Glu	Glu													
															260

<210> 6953
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 6953

His	Phe	Ala	Gln	Thr	Met	Gly	Glu	Arg	Met	Thr	Ala	Leu	Pro	Gly	Glu
1				5					10					15	
Arg	Ile	Gly	Gly	Trp	Leu	Ile	Ala	Pro	Leu	Ala	Trp	Leu	Leu	Val	Ala
			20					25					30		
Leu	Leu	Ser	Ala	Ser	Leu	Ala	Leu	Leu	Leu	Tyr	Thr	Thr	Ala	Leu	Val
		35					40					45			
Thr	Pro	His	Ala	Ile	Gln	Thr	Leu	Met	Ser	Gln	Ser	Ala	Leu	Asn	Ile
		50				55					60				
Ala	Thr	Trp	Phe	Val	Ser	Phe	Val	Phe	Ala	Ile	Ala	Met	Trp	Tyr	Tyr
65					70					75					80
Thr	Leu	Trp	Leu	Thr	Ile	Ala	Phe	Phe	Lys	Arg	Arg	Lys	Ser	Val	Pro
			85						90					95	
Lys	His	Tyr	Ile	Ile	Trp	Leu	Leu	Val	Ser	Val	Leu	Leu	Ala	Val	Lys
			100					105					110		
Ala	Phe	Ala	Phe	Ser	Pro	Val	Ser	Asp	Ala	Leu	Ala	Val	Arg	Gln	Leu

	115					120				125					
Leu	Phe	Pro	Leu	Leu	Ala	Thr	Ala	Leu	Leu	Val	Pro	Tyr	Phe	Lys	Arg
	130					135					140				
Ser	Thr	Arg	Val	Lys	Lys	Thr	Phe	Val	Asn	Pro					
145					150					155					

<210> 6954

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6954

Trp	Ser	Gly	Glu	Val	Val	Met	Ser	Ala	Ile	Trp	Ile	Ala	Ile	Ala	Ser
1				5					10					15	
Ile	Ser	Val	Leu	Gly	Leu	Val	Phe	Gly	Ile	Ile	Leu	Gly	Tyr	Ala	Ser
		20						25					30		
Arg	Arg	Phe	Ala	Val	Glu	Asp	Asp	Pro	Val	Val	Glu	Lys	Ile	Asp	Glu
		35					40					45			
Leu	Leu	Pro	Gln	Ser	Gln	Cys	Gly	Gln	Cys	Gly	Tyr	Pro	Gly	Cys	Arg
	50					55					60				
Pro	Tyr	Ala	Glu	Ala	Val	Gly	Val	Gln	Gly	Glu	Lys	Ile	Asn	Arg	Cys
65					70					75					80
Ala	Pro	Gly	Gly	Glu	Ala	Val	Met	Leu	Lys	Ile	Ala	Ala	Leu	Leu	Asn
				85					90					95	
Val	Asp	Pro	Gln	Pro	Val	Asp	Gly	Asp	Glu	Gln	Ala	Gln	Glu	Pro	Val
			100					105					110		
Arg	Ala	Leu	Ala	Val	Ile	Asp	Glu	Ala	Asn	Cys	Ile	Gly	Cys	Thr	Lys
		115					120					125			
Cys	Ile	Gln	Ala	Cys	Pro	Val	Asp	Ala	Ile	Val	Gly	Ala	Thr	Arg	Ala
	130					135					140				
Met	His	Thr	Val	Val	Ala	Asp	Leu	Cys	Thr	Gly	Cys	Asn	Leu	Cys	Val
145					150					155					160
Ala	Pro	Cys	Pro	Thr	Gln	Cys	Ile	Glu	Leu	Arg	Pro	Val	Glu	Thr	Thr
				165					170					175	
Thr	Glu	Asn	Trp	Lys	Trp	Asp	Leu	Gln	Thr	Ile	Pro	Val	Arg	Asn	Ile
		180					185						190		
Pro	Val	Glu	Gln	His	Ala										
		195													

<210> 6955

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6955

Thr	Gln	Arg	Thr	Gly	Arg	Asp	Pro	Arg	Glu	Ser	Ser	Met	Asn	Lys	Glu
1				5					10					15	
Lys	Arg	Ile	Ala	Ile	Leu	Thr	Arg	Leu	Arg	Asp	Glu	Asn	Pro	His	Pro
			20					25					30		
Thr	Thr	Glu	Leu	Asn	Phe	Asn	Ser	Pro	Phe	Glu	Leu	Leu	Ile	Ala	Val
		35					40					45			
Leu	Leu	Ser	Ala	Gln	Ala	Thr	Asp	Val	Ser	Val	Asn	Lys	Ala	Thr	Ala
		50				55					60				
Leu	Leu	Tyr	Pro	Val	Ala	Asn	Thr	Pro	Gln	Ala	Met	Leu	Glu	Leu	Gly
65					70					75					80
Val	Glu	Gly	Val	Lys	Ser	Tyr	Ile	Lys	Thr	Ile	Gly	Leu	Phe	Asn	Ser
				85					90					95	
Lys	Ala	Glu	Asn	Val	Ile	Lys	Thr	Cys	Arg	Ile	Leu	Leu	Glu	Lys	His
			100					105					110		
Gly	Gly	Glu	Val	Pro	Glu	Asp	Arg	Ala	Ala	Leu	Glu	Ala	Leu	Pro	Gly
		115					120						125		

Asp Glu Val Thr Lys Leu Val His Gly Glu Glu Gly Leu Ala Ala Ala
 340 345 350
 Lys Arg Ile Thr Ala Ser Leu Phe Asn Gly Thr Leu Ser Asp Leu Ser
 355 360 365
 Glu Ala Asp Phe Glu Gln Leu Ala Gln Asp Gly Val Pro Met Val Glu
 370 375 380
 Met Glu Lys Gly Ala Asp Leu Met Gln Ala Leu Val Asp Ser Glu Leu
 385 390 395 400
 Gln Pro Ser Arg Gly Gln Ala Arg Lys Thr Ile Ala Ser Asn Ala Ile
 405 410 415
 Thr Ile Asn Gly Glu Lys Gln Ala Asp Pro Glu Tyr Thr Phe Thr Glu
 420 425 430
 Asn Asp Arg Leu Tyr Gly Arg Tyr Thr Leu Leu Arg Arg Gly Lys Lys
 435 440 445
 Asn Tyr Cys Leu Val Cys Trp Lys
 450 455

<210> 6957

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6957

Leu Lys Val Cys Arg Gly Val Gly Asn His Ala Pro Phe Val Leu Thr
 1 5 10 15
 Gly Phe Gly Lys Tyr Asn Met Lys Asn Ile Leu Ala Ile Gln Ser His
 20 25 30
 Val Val Phe Gly His Ala Gly Asn Ser Ala Ala Glu Phe Pro Met Arg
 35 40 45
 Arg Leu Gly Val Asn Val Trp Pro Leu Asn Thr Val Gln Phe Ser Asn
 50 55 60
 His Thr Gln Tyr Gly Lys Trp Thr Gly Cys Val Met Pro Pro Ser His
 65 70 75 80
 Leu Thr Glu Val Val Gln Gly Val Ala Asp Ile Asp Gln Leu Lys Arg
 85 90 95
 Cys Asp Ala Val Leu Ser Gly Tyr Leu Gly Ser Ala Glu Gln Gly Glu
 100 105 110
 His Ile Leu Gly Ile Val Arg Gln Val Lys Ala Ala Asn Pro Ala Ala
 115 120 125
 Lys Tyr Phe Cys Asp Pro Val Met Gly His Pro Glu Lys Gly Cys Ile
 130 135 140
 Val Ala Pro Gly Val Ala Glu Phe His Val Arg His Ala Leu Pro Ala
 145 150 155 160
 Ser Asp Ile Ile Ala Pro Asn Leu Ile Glu Leu Glu Ile Leu Ser Glu
 165 170 175
 His Pro Val Asn Ser Val Glu Glu Ala Val Ser Ala Ser Arg Glu Leu
 180 185 190
 Ile Ala Gln Gly Pro Glu Ile Val Leu Val Lys His Leu Ala Arg Ala
 195 200 205
 Gly Leu Ser Gln Asp Arg Phe Glu Met Leu Leu Val Thr Lys Asp Glu
 210 215 220
 Ala Trp His Ile Ser Arg Pro Leu Val Asp Phe Gly Ala Arg Gln Pro
 225 230 235 240
 Val Gly Val Gly Asp Val Thr Ser Gly Leu Leu Leu Val Lys Leu Leu
 245 250 255
 Gln Gly Ala Ser Leu Arg Asp Ala Leu Glu His Val Thr Ala Ala Val
 260 265 270
 Tyr Glu Ile Met Ile Ala Thr Lys Thr Met Gln Glu Tyr Glu Leu Gln
 275 280 285
 Val Val Ala Ala Gln Asp Arg Ile Ala Lys Pro Glu His Tyr Phe Ser
 290 295 300

Ala Thr Gln Leu
305

<210> 6958

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6958

Gly	Lys	Arg	Met	Lys	Ser	Gly	Arg	Tyr	Ile	Gly	Val	Met	Ser	Gly	Thr
1				5					10					15	
Ser	Leu	Asp	Gly	Val	Asp	Val	Val	Leu	Ala	Ala	Ile	Asp	Glu	Asn	Met
			20					25					30		
Val	Ala	Gln	Gln	Ala	Ser	Leu	Thr	Trp	Pro	Ile	Pro	Val	Ser	Leu	Lys
		35					40					45			
Glu	Glu	Ile	Leu	Asn	Ile	Cys	Gln	Gly	Gln	Gln	Leu	Thr	Leu	Ser	Gln
		50				55					60				
Leu	Gly	Gln	Leu	Asp	Val	Arg	Leu	Gly	Ala	Leu	Phe	Ala	Asp	Ala	Val
65				70					75						80
Leu	Ala	Leu	Met	Gln	Glu	Arg	Leu	His	Pro	Gln	Asp	Ile	Val	Ala	
				85				90						95	
Ile	Gly	Cys	His	Gly	Gln	Thr	Val	Trp	His	Glu	Pro	Val	Gly	Glu	Ala
			100					105					110		
Pro	His	Thr	Met	Gln	Ile	Gly	Asp	Asn	Asn	Gln	Ile	Val	Ala	Lys	Thr
		115					120					125			
Gly	Val	Thr	Val	Val	Gly	Asp	Phe	Arg	Arg	Arg	Asp	Met	Ala	Leu	Gly
		130				135					140				
Gly	Gln	Gly	Ala	Pro	Leu	Val	Pro	Ala	Phe	His	Gln	Ala	Leu	Leu	Ala
145				150					155						160
His	Pro	Val	Lys	Arg	Met	Met	Val	Leu	Asn	Ile	Gly	Gly	Asn	Pro	Asn
				165					170					175	
Leu	Ser	Met	Leu	Ile	Pro	Gly	Gln	Pro	Val	Arg	Gly	Tyr	Asp	Thr	Gly
			180					185					190		
Pro	Gly	Asn	Met	Leu	Met	Asp	Ala	Trp	Ile	Trp	Arg	Gln	Ser	Gly	Lys
		195					200					205			
Ala	Tyr	Asp	Lys	Asp	Ala	Gln	Trp	Ala	Ser	Gln	Gly	Lys	Val	Ile	Leu
		210				215					220				
Pro	Leu	Leu	Gln	Thr	Leu	Leu	Ser	Asp	Pro	Phe	Phe	Ala	Leu	Pro	Ala
225					230					235					240
Pro	Lys	Ser	Thr	Gly	Arg	Glu	Tyr	Phe	Asn	Tyr	Gly	Trp	Leu	Glu	Arg
				245					250					255	
Gln	Leu	Ala	Arg	Phe	Pro	Gly	Leu	Ala	Pro	Gln	Asp	Val	Gln	Ala	Thr
			260					265					270		
Leu	Thr	Glu	Leu	Thr	Ala	Val	Ser	Ile	Ser	Glu	Gln	Val	Leu	Leu	Ser
		275					280					285			
Gly	Gly	Cys	Glu	Arg	Leu	Leu	Val	Cys	Gly	Gly	Gly	Ser	Arg	Asn	Pro
		290				295					300				
Leu	Val	Met	Ala	Arg	Leu	Ala	Ala	Leu	Leu	Pro	Gly	Thr	Glu	Val	Thr
305					310					315					320
Thr	Thr	Asp	Glu	Ala	Gly	Ile	Ser	Gly	Asp	Asp	Met	Glu	Ala	Leu	Ala
				325					330					335	
Phe	Ala	Trp	Leu	Ala	Trp	Arg	Thr	Val	Ala	Gly	Leu	Pro	Gly	Asn	Leu
			340					345					350		
Pro	Ser	Val	Thr	Gly	Ala	Arg	Glu	Ala	Ser	Val	Leu	Gly	Ala	Ile	Phe
		355					360					365			
Pro	Ala	Asn	Pro	Arg	His	Asn	Gln	Ser							
		370				375									

<210> 6959

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6959

Ala	Leu	Gln	Asp	Gln	Asp	Ser	Leu	Arg	Asn	Leu	Pro	Met	Lys	Lys	Leu
1				5					10					15	
Leu	Leu	Ile	Ala	Val	Pro	Phe	Leu	Met	Thr	Gly	Cys	Ser	Val	Tyr	Asn
			20					25					30		
Gln	Phe	Val	Glu	Arg	Met	Gln	Thr	Asp	Thr	Leu	Glu	Tyr	Arg	Cys	Asp
		35					40					45			
Glu	Lys	Pro	Leu	Thr	Val	Lys	Leu	Asn	Asn	Pro	Arg	Gln	Glu	Ala	Ser
	50					55				60					
Phe	Val	Tyr	Asp	Asn	Lys	Leu	Leu	Thr	Leu	Lys	Gln	Gly	Met	Ser	Ala
65					70				75						80
Ser	Gly	Ala	Arg	Tyr	Ser	Asp	Gly	Ile	Tyr	Val	Phe	Trp	Ser	Lys	Gly
			85					90						95	
Asp	Ser	Ala	Thr	Val	Tyr	Lys	Arg	Asp	Arg	Ile	Val	Leu	Asn	Asn	Cys
		100					105						110		
Gln	Leu	Gln	Asn	Pro	Lys	Arg									
		115					120								

<210> 6960

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6960

Arg	His	Pro	Ile	Ser	Leu	Ser	Ala	Asn	Ala	Met	Ser	Asp	Asn	Asp	Glu
1				5					10					15	
Leu	Gln	Gln	Ile	Ala	His	Leu	Arg	Arg	Glu	Tyr	Thr	Lys	Gly	Gly	Leu
			20					25					30		
Arg	Arg	Gln	Asp	Leu	Pro	Ala	Glu	Pro	Leu	Val	Leu	Phe	Glu	Arg	Trp
		35					40					45			
Leu	Lys	Gln	Ala	Cys	Glu	Thr	Lys	Leu	Val	Asp	Pro	Thr	Ala	Met	Val
	50					55				60					
Val	Ala	Thr	Val	Asp	Glu	Asn	Gly	Gln	Pro	Tyr	Gln	Arg	Ile	Val	Leu
65				70					75						80
Leu	Lys	His	Tyr	Asp	Glu	Lys	Gly	Leu	Val	Phe	Tyr	Thr	Asn	Leu	Gly
			85					90						95	
Ser	Arg	Lys	Ala	His	His	Leu	Glu	Asn	Asn	Pro	Arg	Ile	Ser	Leu	Leu
		100					105						110		
Phe	Pro	Trp	His	Met	Leu	Glu	Arg	Gln	Val	Met	Val	Thr	Gly	Lys	Ala
	115						120					125			
Glu	Arg	Leu	Ser	Thr	Leu	Glu	Val	Val	Lys	Tyr	Phe	His	Ser	Arg	Pro
	130					135					140				
Arg	Asp	Ser	Gln	Ile	Gly	Ala	Trp	Val	Ser	Lys	Gln	Ser	Ser	Arg	Ile
145				150					155						160
Ser	Ala	Arg	Gly	Val	Leu	Glu	Ser	Lys	Phe	Leu	Glu	Leu	Lys	Gln	Lys
			165					170						175	
Phe	Gln	Gln	Gly	Glu	Val	Pro	Leu	Pro	Ser	Phe	Trp	Gly	Gly	Phe	Arg
		180					185						190		
Ile	Pro	Ile	Glu	Gln	Met	Glu	Phe	Trp	Gln	Gly	Gly	Glu	His	Arg	Leu
		195					200					205			
His	Asp	Arg	Phe	Leu	Tyr	Gln	Arg	Asp	Asn	Gly	Gly	Trp	Lys	Ile	Asp
	210					215					220				
Arg	Leu	Ala	Pro												
225															

<210> 6961

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6961

Cys Glu Val Thr Lys Asn Ala Val Val Arg Cys Tyr Phe Asn Ser Gln
 1 5 10 15
 Gly Thr Leu Leu Met Cys Ala Leu Ser Thr Arg Pro Val Ile Asn Lys
 20 25 30
 Arg Thr Ala Arg Gly Lys Thr Met Ser Glu Asn Ile Arg Val Gly Leu
 35 40 45
 Ile Gly Tyr Gly Tyr Ala Ser Lys Thr Phe His Ala Pro Leu Val Ala
 50 55 60
 Gly Thr Pro Gly Met Glu Leu Ala Ala Ile Thr Ser Ser Asp Glu Thr
 65 70 75 80
 Lys Val Arg Ala Asp Trp Pro Ala Val Pro Val Val Thr Glu Pro Lys
 85 90 95
 His Leu Phe Asn Asp Pro Asn Ile Asp Leu Ile Val Ile Pro Thr Pro
 100 105 110
 Asn Asp Thr His Phe Pro Leu Ala Lys Ala Ala Leu Asp Ala Ser Lys
 115 120 125
 His Val Val Val Asp Lys Pro Phe Thr Val Thr Leu Ser Gln Ala Arg
 130 135 140
 Glu Leu Asp Ala Leu Ala Arg Ser Leu Gly Arg Leu Leu Ser Val Phe
 145 150 155 160
 His Asn Arg Arg Trp Asp Ser Asp Phe Leu Thr Val Lys Ala Leu Leu
 165 170 175
 Asn Glu Gly Thr Leu Gly Glu Ile Ala Phe Phe Glu Ser His Phe Asp
 180 185 190
 Arg Tyr Arg Pro Gln Val Arg Asp Arg Trp Arg Glu Gln Ala Gly Pro
 195 200 205
 Gly Ser Gly Ile Trp Tyr Asp Leu Ala Pro His Leu Leu Asp Gln Ala
 210 215 220
 Val His Leu Phe Gly Leu Pro Val Ser Met Thr Val Asp Leu Ala Gln
 225 230 235 240
 Leu Arg Pro Gly Ala Gln Thr Thr Asp Tyr Phe His Ala Ile Leu Ser
 245 250 255
 Tyr Pro Gln Arg Arg Ile Val Leu His Gly Thr Met Leu Ala Ala Ala
 260 265 270
 Glu Ser Ala Arg Tyr Ile Ile His Gly Ala Arg Gly Ser Tyr Val Lys
 275 280 285
 Phe Gly Leu Asp Pro Gln Glu Glu Arg Leu Lys Asn Gly Glu Arg Leu
 290 295 300
 Pro Gln Glu Asp Trp Gly Tyr Asp Met Arg Asp Gly Val Val Thr Arg
 305 310 315 320
 Ala Glu Gly Glu Ala Leu Val Glu Glu Thr Val Leu Thr Leu Pro Gly
 325 330 335
 Asn Tyr Pro Ala Tyr Tyr Ala Ala Ile Arg Asp Ala Leu Asn Gly Ser
 340 345 350
 Gly Glu Asn Pro Val Pro Ala Ser Gln Ala Ile Gln Ile Met Glu Leu
 355 360 365
 Ile Glu Leu Gly Ile Glu Ser Ala Lys His Arg Ala Thr Leu Cys Leu
 370 375 380

Ala

385

<210> 6962

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6962

Phe Lys Arg Ile Ala Val Gly Gln Leu Ala Glu Glu Lys Asp Gly Ile
 1 5 10 15

Met Ile Ser Leu Lys Asn Val Ser Lys Trp Tyr Gly His Phe Gln Val
 20 25 30
 Leu Thr Asp Cys Ser Thr Glu Val Lys Lys Gly Asp Val Val Val
 35 40 45
 Cys Gly Pro Ser Gly Ser Gly Lys Ser Thr Leu Ile Lys Thr Val Asn
 50 55 60
 Gly Leu Glu Pro Val Gln Gln Gly Glu Ile Val Val Asn Gly Thr Lys
 65 70 75 80
 Val Asn Asp Arg Lys Thr Asn Leu Ala Gln Leu Arg Ser His Val Gly
 85 90 95
 Met Val Phe Gln His Phe Glu Leu Phe Pro His Leu Ser Ile Ile Glu
 100 105 110
 Asn Leu Thr Leu Ala Gln Val Lys Val Leu Lys Arg Asp Lys Lys Ala
 115 120 125
 Ala Arg Glu Lys Gly Leu Lys Leu Leu Glu Arg Val Gly Leu Ser Ala
 130 135 140
 His Ala Asp Lys Phe Pro Ala Gln Leu Ser Gly Gly Gln Gln Gln Arg
 145 150 155 160
 Val Ala Ile Ala Arg Ala Leu Cys Met Asp Pro Val Ala Met Leu Phe
 165 170 175
 Asp Glu Pro Thr Ser Ala Leu Asp Pro Glu Met Ile Asn Glu Val Leu
 180 185 190
 Asp Val Met Val Glu Leu Ala His Glu Gly Met Thr Met Met Val Val
 195 200 205
 Thr His Glu Met Gly Phe Ala Arg Lys Val Pro Asn Arg Val Ile Phe
 210 215 220
 Met Asp Glu Gly Lys Ile Val Glu Asp Ser Pro Lys Glu Glu Phe Phe
 225 230 235 240
 Ala Asn Pro Lys Ser Glu Arg Ala Lys Asp Phe Leu Ala Lys Ile Leu
 245 250 255
 His

<210> 6963

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 6963

Thr Ala Ile Leu Asn Cys Thr Ala Thr Leu Ala Arg Ile Val Ile Met
 1 5 10 15
 Gly Gly Ala Met Gly Leu Gly Asn Trp Thr Pro Ala Ala Glu Phe Asn
 20 25 30
 Ile Phe Val Asp Pro Glu Ala Ala Glu Ile Val Phe Gln Ser Gly Leu
 35 40 45
 Pro Ile Val Met Ala Gly Leu Asp Val Thr His Arg Ala Gln Ile Met
 50 55 60
 Val Gln Asp Ile Glu Arg Phe Arg Thr Val Gly Asn Pro Val Ala Thr
 65 70 75 80
 Thr Val Ala Glu Leu Leu Asp Phe Phe Met Glu Tyr His Lys Ala Glu
 85 90 95
 Lys Trp Gly Phe His Gly Ala Pro Leu His Asp Pro Cys Thr Ile Ala
 100 105 110
 Trp Leu Leu Lys Pro Glu Met Phe Thr Thr Val Glu Arg Trp Val Gly
 115 120 125
 Val Glu Thr Gln Gly Lys Tyr Thr Gln Gly Met Thr Val Val Asp Tyr
 130 135 140
 Tyr Ser Leu Thr Gly Asn Lys Pro Asn Thr Thr Val Met Val Asp Ile
 145 150 155 160
 Asp Arg Glu Ala Phe Val Asp Leu Leu Ala Glu Arg Leu Ala Tyr Tyr
 165 170 175

Met

<210> 6964
 <211> 169
 <212> PRT
 <213> Enterobacter cloacae

<400> 6964

Tyr	Phe	Phe	Thr	Thr	Glu	Lys	Asn	Glu	Met	Thr	Ile	Pro	Ala	His	Ile
1			5					10						15	
Trp	Leu	Ile	Asp	Asn	Gly	Ser	Pro	Leu	Ile	Gly	Glu	Cys	Leu	Met	
		20					25					30			
Pro	Ser	Arg	Leu	Gly	Ser	Thr	Glu	Leu	Lys	Ser	Phe	Asp	His	Ser	Val
		35					40					45			
Trp	Ile	Pro	Thr	Asp	His	Asn	Thr	Gly	Lys	Leu	Thr	Gly	Thr	Arg	Leu
	50					55					60				
His	Val	Pro	Ile	Arg	Phe	Lys	Lys	Glu	Ile	Asp	Arg	Leu	Thr	Pro	Tyr
65					70					75					80
Leu	Phe	Arg	Ala	Val	Cys	Glu	Gly	Arg	Ile	Leu	Lys	Glu	Ala	Leu	Ile
			85						90					95	
Lys	Met	Tyr	Lys	Ile	Asn	Asp	Ala	Gly	Ile	Glu	Leu	Glu	Tyr	Phe	Asn
		100						105					110		
Ile	Lys	Leu	Glu	Asn	Val	Lys	Ile	Thr	Gln	Ile	Ser	Pro	Val	Leu	Phe
	115						120					125			
Pro	Val	Gly	Ile	Ala	Ser	Lys	His	Met	Glu	Glu	Val	Glu	Ile	Arg	Tyr
	130					135					140				
Glu	Ser	Ile	Glu	Trp	Lys	Tyr	Thr	Glu	Gly	Asn	Ile	Met	Tyr	Lys	Asp
145					150					155					160
Ser	Trp	Asn	Glu	Arg	Val	Thr	Ala								
			165												

<210> 6965
 <211> 345
 <212> PRT
 <213> Enterobacter cloacae

<400> 6965

Leu	Met	Ile	Arg	Leu	Tyr	Pro	Glu	Gln	Leu	Arg	Ala	Gln	Leu	Asn	Glu
1			5						10					15	
Gly	Leu	Arg	Ala	Ala	Tyr	Leu	Leu	Leu	Gly	Asn	Asp	Pro	Leu	Leu	Leu
		20						25					30		
Gln	Glu	Ser	Leu	Asp	Ala	Val	Arg	His	Ala	Ala	Ala	Ala	Gln	Gly	Phe
		35					40					45			
Asp	Glu	His	His	Thr	Phe	Gln	Ile	Asp	Asn	Ser	Thr	Asp	Trp	Asn	Ala
	50					55					60				
Ile	Phe	Ser	Leu	Cys	Gln	Ala	Met	Ser	Leu	Phe	Ala	Ser	Arg	Gln	Thr
65					70					75					80
Ile	Gln	Ile	Leu	Leu	Pro	Glu	Asn	Gly	Pro	Asn	Ala	Ala	Ile	Asn	Glu
			85					90						95	
Gln	Leu	Ala	Met	Leu	Val	Ser	Leu	Leu	His	Gly	Asp	Leu	Leu	Leu	Ile
		100						105					110		
Val	Arg	Gly	Asn	Lys	Leu	Thr	Lys	Ala	Gln	Glu	Asn	Ala	Ala	Trp	Phe
		115					120					125			
Thr	Arg	Leu	Thr	Pro	Ser	Ala	Val	Leu	Val	Ser	Cys	Gln	Thr	Pro	Glu
	130					135					140				
Gln	Ala	His	Leu	Pro	Lys	Trp	Val	Ala	Ala	Arg	Ala	Lys	Gln	His	Asn
145					150					155					160
Leu	Gln	Leu	Asp	Glu	Ala	Ala	Ser	Gln	Leu	Leu	Cys	Tyr	Cys	Tyr	Glu
			165						170					175	
Gly	Asn	Leu	Leu	Ala	Leu	Ala	Gln	Ala	Leu	Asp	Arg	Leu	Ala	Leu	Leu

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<210> 6966
<211> 638
<212> PRT
<213> Enterobacter cloacae
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<400> 6966															
Phe 1	Lys	Gln	Arg	Met 5	Lys	Leu	Gln	Asn 10	Ser	Phe	Arg	Asp	Tyr	Thr 15	Ala
Glu	Ser	Ala	Leu 20	Phe	Val	Arg	Arg	Ala 25	Leu	Val	Ala	Phe	Thr 30	Gly	Ile
Leu	Leu	Leu 35	Thr	Gly	Val	Leu	Ile 40	Ala	Asn	Leu	Tyr	Asn 45	Leu	Gln	Ile
Val	Arg 50	Tyr	Thr	Asp	Tyr	Gln 55	Thr	Arg	Ser	Asn	Glu 60	Asn	Arg	Ile	Lys
Leu 65	Val	Pro	Ile	Ala	Pro 70	Ser	Arg	Gly	Ile	Ile	Tyr	Asp	Arg	Asn	Gly 80
Thr	Pro	Leu	Ala	Leu 85	Asn	Arg	Thr	Ile	Tyr 90	Gln	Ile	Glu	Met	Met 95	Pro
Glu	Lys	Val	Asp 100	Asn	Val	Gln	Asp	Thr 105	Leu	Asn	Ala	Leu	Arg	Ser	Val
Val	Asp	Leu 115	Thr	Asp	Asp	Asp	Ile 120	Ala	Ala	Phe	Lys	Lys 125	Glu	Arg	Ala
Arg	Ser 130	His	Arg	Phe	Thr	Ser 135	Ile	Pro	Val	Lys	Thr	Asn 140	Leu	Thr	Glu
Val 145	Gln	Val	Ala	Arg	Phe 150	Ala	Val	Asn	Gln	Tyr	Arg	Phe	Pro	Gly	Val 160
Glu	Val	Lys	Gly	Tyr 165	Lys	Arg	Arg	Tyr	Tyr 170	Pro	Tyr	Gly	Ser	Ala	Leu
Thr	His	Val	Ile 180	Gly	Tyr	Val	Ser	Lys 185	Ile	Asn	Asp	Lys	Asp 190	Val	Glu
Arg	Leu	Asp 195	Lys	Asp	Gly	Lys	Leu 200	Ala	Asn	Tyr	Ala	Ala 205	Thr	His	Asp
Ile	Gly 210	Lys	Leu	Gly	Ile	Glu	Arg 215	Tyr	Tyr	Glu	Asp	Val	Leu	His	Gly
Gln 225	Thr	Gly	Tyr	Glu	Glu 230	Val	Glu	Val	Asn	Asn	Arg	Gly	Arg	Val	Ile
Arg	Gln	Leu	Lys	Glu 245	Val	Pro	Pro	Gln	Ala	Gly	His	Asp	Val	Tyr	Leu
Thr	Leu	Asp	Leu	Lys	Leu	Gln	Gln	Tyr	Ile	Glu	Thr	Leu	Leu	Ala	Gly

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<210> 6967
<211> 176
<212> PRT
<213> Enterobacter cloacae
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<400> 6967
Trp  Pro  Gly  Leu  Val  Ser  Ser  Cys  Arg  Ser  Ile  Pro  Thr  Gly  Lys  Cys
1      5      10      15
Cys  Pro  Lys  Ala  Tyr  Lys  Asn  Lys  Gly  Ile  Ala  Met  Arg  Lys  Gln  Trp
      20      25      30
Leu  Gly  Ile  Cys  Ile  Ala  Ala  Ser  Leu  Leu  Ala  Ala  Cys  Thr  Ser  Asp
      35      40      45
Asp  Gly  Gln  Gln  Gln  Ala  Thr  Val  Ala  Pro  Pro  Gln  Pro  Ala  Val  Cys

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50		55		60	
Asn Gly Pro Ile Val	Glu Ile Ser Gly Ala Asp Pro Val Tyr Glu Pro				
65	70		75		80
Leu Asn Ala Ser Val	Asn Gln Asp Tyr Gln Arg Asp Gly Lys Ser Tyr				
	85		90		95
Lys Ile Val Gln Asp	Pro Ser Arg Phe Ser Gln Ala Gly Phe Ala Ala				
	100		105		110
Ile Tyr Asp Ala Glu	Pro Gly Ser Asn Leu Thr Ala Ser Gly Glu Thr				
	115		120		125
Phe Asp Pro Met Gln	Ile Thr Ala Ala His Pro Thr Leu Pro Val Pro				
	130		135		140
Ser Tyr Ala Arg Ile	Thr Asn Leu Ala Asn Gly Arg Met Ile Val Val				
145	150		155		160
Arg Ile Thr Leu His	His Val Ala Arg Ser Leu Arg Pro Ser Asn				
	165		170		175

<210> 6968

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6968

Val Val Val Pro His	Ser Ala Gln Lys Leu Ser Phe Ser Pro Ile Phe		
1	5	10	15
Glu Gly Ser Ala Ala	Thr Leu Phe Phe Leu Glu Phe Thr Met Ser Ile		
	20	25	30
Asp Trp Asn Trp Gly	Ile Phe Leu Gln Gln Ala Pro Phe Gly Asn Thr		
	35	40	45
Thr Tyr Leu Gly Trp	Leu Trp Ser Gly Phe Gln Val Thr Val Ala Leu		
	50	55	60
Ser Ile Thr Ala Trp	Ile Ile Ala Phe Leu Val Gly Ser Leu Phe Gly		
65	70	75	80
Ile Leu Arg Thr Val	Pro Asn Arg Phe Leu Ser Ser Ile Gly Thr Leu		
	85	90	95
Tyr Val Glu Leu Phe	Arg Asn Val Pro Leu Ile Val Gln Phe Phe Thr		
	100	105	110
Trp Tyr Leu Val Ile	Pro Glu Leu Pro Glu Asp Leu Gly Met Trp		
	115	120	125
Phe Lys Ala Glu Leu	Asp Pro Asn Val Gln Phe Phe Val Ser Ser Met		
	130	135	140
Leu Cys Leu Gly Leu	Phe Thr Ala Ala Arg Val Cys Glu Gln Val Arg		
145	150	155	160
Ala Ala Ile Gln Ser	Leu Pro Arg Gly Gln Lys Asn Ala Ala Leu Ala		
	165	170	175
Met Gly Leu Thr Leu	Pro Gln Ala Tyr Arg Tyr Val Leu Leu Pro Asn		
	180	185	190
Ala Tyr Arg Val Ile	Val Pro Pro Met Thr Ser Glu Met Met Asn Leu		
	195	200	205
Val Lys Asn Ser Ala	Ile Ala Ser Thr Ile Gly Leu Val Asp Met Ala		
	210	215	220
Ala Gln Ala Gly Lys	Leu Leu Asp Tyr Ser Ala His Ala Trp Glu Ser		
225	230	235	240
Phe Thr Ala Ile Thr	Leu Ala Tyr Val Leu Ile Asn Ala Phe Ile Met		
	245	250	255
Leu Val Met Asn Leu	Val Glu Arg Lys Val Arg Leu Pro Gly Asn Leu		
	260	265	270
Gly Gly Lys			
275			

<210> 6969

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 6969

Met	Tyr	Asp	Phe	Asp	Trp	Ser	Ser	Ile	Val	Pro	Ser	Met	Pro	Tyr	Leu
1				5					10					15	
Leu	Asp	Gly	Leu	Ala	Ile	Thr	Leu	Lys	Ile	Thr	Val	Ile	Ala	Ile	Ile
			20					25					30		
Val	Gly	Ile	Val	Trp	Gly	Thr	Leu	Leu	Ala	Val	Met	Arg	Leu	Ser	Ser
			35				40					45			
Phe	Lys	Pro	Leu	Ala	Trp	Phe	Ala	Thr	Ala	Tyr	Val	Asn	Val	Phe	Arg
	50					55					60				
Ser	Ile	Pro	Leu	Val	Met	Val	Leu	Leu	Trp	Phe	Tyr	Leu	Ile	Val	Pro
65					70					75					80
Gly	Phe	Leu	Gln	Asn	Val	Leu	Gly	Leu	Ser	Pro	Lys	Thr	Asp	Ile	Arg
				85				90						95	
Leu	Ile	Ser	Ala	Met	Val	Ala	Phe	Ser	Met	Phe	Glu	Ala	Ala	Tyr	Tyr
			100					105					110		
Ser	Glu	Ile	Ile	Arg	Ala	Gly	Ile	Gln	Ser	Ile	Ser	Arg	Gly	Gln	Ser
	115						120					125			
Ser	Ala	Ala	Leu	Ala	Leu	Gly	Met	Thr	His	Trp	Gln	Ser	Met	Lys	Leu
	130					135					140				
Ile	Ile	Leu	Pro	Gln	Ala	Phe	Arg	Ala	Met	Val	Pro	Leu	Leu	Leu	Thr
145					150					155					160
Gln	Gly	Ile	Val	Leu	Phe	Gln	Asp	Thr	Ser	Leu	Val	Tyr	Val	Leu	Ser
				165				170						175	
Leu	Ala	Asp	Phe	Phe	Arg	Thr	Ala	Ser	Thr	Ile	Gly	Glu	Arg	Asp	Gly
			180					185					190		
Thr	Gln	Val	Glu	Met	Ile	Leu	Phe	Ala	Gly	Gly	Val	Tyr	Phe	Val	Ile
	195						200					205			
Ser	Leu	Ser	Ala	Ser	Leu	Leu	Val	Ser	Trp	Leu	Lys	Lys	Arg	Thr	Val
	210					215					220				

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<210> 6970

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6970

Ile	Ala	Glu	Ser	Gly	Arg	Trp	Leu	Ser	Ala	Gly	Gly	Asn	Val	Arg	Gln
1				5					10					15	
Leu	Ala	Thr	Ile	Leu	Leu	Ser	Leu	Ala	Val	Leu	Val	Thr	Ala	Gly	Cys
			20					25					30		
Gly	Trp	His	Leu	Arg	Asn	Thr	Thr	Ala	Val	Pro	Ala	Gln	Met	Lys	Thr
		35				40						45			
Met	Ile	Phe	Asp	Ser	Ser	Asp	Pro	Asn	Gly	Pro	Leu	Ser	Arg	Ala	Ile
	50					55					60				
Arg	Asn	Gln	Leu	Arg	Leu	Asn	Asp	Val	Glu	Leu	Ile	Glu	Lys	Gly	Thr
65					70				75						80
Leu	Arg	Gln	Asp	Val	Pro	Ser	Leu	Arg	Val	Leu	Lys	Ser	Thr	Leu	Ala
				85					90					95	
Lys	Asp	Thr	Ala	Ser	Ile	Phe	Gln	Asp	Gly	Arg	Thr	Ala	Glu	Tyr	Gln
			100					105					110		
Met	Val	Leu	Thr	Val	Ser	Ala	Ala	Val	Leu	Met	Pro	Gly	Lys	Asp	Ile
	115						120					125			
Tyr	Pro	Ile	Ser	Thr	Lys	Val	Tyr	Arg	Ser	Phe	Phe	Asp	Asn	Pro	Gln
	130					135					140				
Thr	Ala	Leu	Ala	Lys	Asp	Ala	Glu	Glu	Gln	Ile	Ile	Ile	Lys	Glu	Met
145					150					155					160

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Tyr Asp Lys Ala Ala Glu Gln Leu Ile Arg Lys Leu Pro Thr Ile Ala
 165 170 175
 Ala Ser Thr Lys Lys Gly Ala Asp Val Ile Glu Thr Pro Asp Ala Arg
 180 185 190
 Thr Pro Asp Met Pro Thr Ser Leu Gly Asn
 195 200

<210> 6971

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6971

Asn Arg Ile Thr Val Ser Leu Ser Gly Arg Ser Trp Arg Val Ser Leu
 1 5 10 15
 Cys Cys Ser Ala Ile Arg Leu Trp Gln Thr Tyr Leu Ser Met Gly Asp
 20 25 30
 Met His Ser Leu Gln Ala Met Tyr Gly Gly Thr Phe Asp Pro Val His
 35 40 45
 Tyr Gly His Leu Lys Pro Val Glu Ile Leu Ala Asn Leu Ile Gly Leu
 50 55 60
 Gln Arg Val Ile Ile Met Pro Asn Asn Val Pro Pro His Arg Pro Gln
 65 70 75 80
 Pro Glu Ala Thr Ser Glu Gln Arg Lys Ala Met Leu Ala Leu Ala Ile
 85 90 95
 Ala Asp Lys Pro Leu Phe Thr Leu Asp Glu Arg Glu Leu Arg Arg Asp
 100 105 110
 Thr Pro Ser Trp Thr Ser Gln Thr Leu Arg Glu Trp Arg Ala Glu Gln
 115 120 125
 Gly Pro Met Lys Pro Leu Ala Phe Ile Ile Gly Gln Asp Ser Leu Leu
 130 135 140
 Asn Phe Pro Ser Trp Tyr Gln Tyr Glu Thr Ile Leu Glu Asn Ser His
 145 150 155 160
 Leu Leu Val Cys Arg Arg Pro Gly Tyr Pro Leu Thr Met Arg Asp Ala
 165 170 175
 Gln His Gln Gln Trp Leu Asp Ala His Leu Thr Asp Asn Ile Glu Asp
 180 185 190
 Leu His Ser Leu Pro Ala Gly Lys Ile Tyr Leu Ala Glu Thr Pro Trp
 195 200 205
 Phe Asp Ile Ser Ala Thr Leu Ile Arg Glu Arg Leu Gln Gln Gly Leu
 210 215 220
 Asp Cys Asp Asp Leu Leu Pro Ser Pro Val Leu Ala Tyr Ile Leu Ala
 225 230 235 240
 His Gly Leu Tyr Gln Lys Ser Thr Asp Val
 245 250

<210> 6972

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6972

Asp Asn Trp Glu Ile Val Gly Thr Ala Gln Ser Lys Glu Ala Tyr Gly
 1 5 10 15
 Cys Met Leu Arg Lys Gly Asp Glu Asp Phe Lys Lys Leu Ile Asp Asp
 20 25 30
 Thr Ile Ala Gln Ala Gln Thr Ser Gly Glu Ala Ala Lys Trp Phe Asp
 35 40 45
 Lys Trp Phe Lys Asn Pro Ile Pro Pro Lys Asn Leu Asn Met Asn Phe
 50 55 60
 Glu Leu Ser Asp Asp Met Lys Ala Leu Phe Lys Ser Pro Asn Asp Lys

65
Ala Leu Asn

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75

80

<210> 6973
<211> 194
<212> PRT
<213> Enterobacter cloacae

<400> 6973

Ile	Ser	Phe	Ser	Ile	Arg	Arg	His	Ile	Ala	Ala	Leu	Thr	Leu	Ser	Gln
1			5						10					15	
Ile	Met	Leu	Arg	Met	Glu	Asn	Ala	Met	Ala	Gln	Pro	Ile	Ile	Leu	Asp
		20						25					30		
Cys	Asp	Pro	Gly	His	Asp	Asp	Ala	Ile	Ala	Leu	Val	Leu	Ala	Leu	Ala
	35						40					45			
Ser	Pro	Glu	Leu	Asp	Val	Lys	Ala	Val	Thr	Ser	Ser	Ala	Gly	Asn	Gln
	50					55				60					
Thr	Pro	Asp	Lys	Thr	Leu	Arg	Asn	Val	Leu	Arg	Met	Leu	Thr	Leu	Leu
65				70					75						80
Lys	Arg	Thr	Asp	Ile	Pro	Val	Ala	Gly	Gly	Ala	Val	Lys	Pro	Leu	Met
			85					90						95	
Arg	Glu	Leu	Ile	Ile	Ala	Asp	Asn	Val	His	Gly	Glu	Ser	Gly	Leu	Asp
		100						105					110		
Gly	Pro	Ala	Leu	Pro	Glu	Pro	Asp	Phe	Ala	Pro	Gln	Asn	Cys	Thr	Ala
		115					120					125			
Val	Glu	Leu	Met	Ala	Lys	Val	Leu	Arg	Glu	Ser	Ala	Glu	Pro	Val	Thr
	130					135				140					
Leu	Val	Ala	Thr	Gly	Pro	Gln	Thr	Asn	Val	Ala	Leu	Leu	Leu	Asn	Ser
145					150					155					160
His	Pro	Glu	Leu	His	Ser	Asn	Thr	Arg	Pro	Tyr	Arg	His	His	Gly	Arg
			165					170						175	
Gly	Asn	Gly	Ala	Gly	Glu	Leu	Asp	Ala	Ser	Ser	Arg	Val	Gln	His	Leu
			180					185					190		

Arg

<210> 6974
<211> 904
<212> PRT
<213> Enterobacter cloacae

<400> 6974

Ile	Pro	Ala	Lys	Cys	Ile	Cys	Val	Lys	Gly	Cys	Phe	Asp	Ala	Gly	Val
1			5						10					15	
Trp	Ala	Met	Leu	Cys	Gly	Ser	Glu	Leu	Pro	His	Pro	Leu	Ala	Thr	Phe
		20						25					30		
Val	Ala	Val	Leu	Asn	Thr	Gly	Pro	Leu	Ala	Ala	Met	Gln	Glu	Gln	Tyr
		35					40					45			
Arg	Pro	Glu	Glu	Ile	Glu	Ser	Lys	Val	Gln	Gln	His	Trp	Asp	Glu	Lys
	50					55					60				
Arg	Thr	Phe	Glu	Val	Thr	Glu	Asp	Glu	Ser	Lys	Glu	Lys	Tyr	Tyr	Cys
65				70					75						80
Leu	Ser	Met	Leu	Pro	Tyr	Pro	Ser	Gly	Arg	Leu	His	Met	Gly	His	Val
			85					90						95	
Arg	Asn	Tyr	Thr	Ile	Gly	Asp	Val	Ile	Ala	Arg	Tyr	Gln	Arg	Met	Leu
		100						105					110		
Gly	Lys	Asn	Val	Leu	Gln	Pro	Ile	Gly	Trp	Asp	Ala	Phe	Gly	Leu	Pro
		115					120				125				
Ala	Glu	Gly	Ala	Ala	Val	Lys	Asn	Asn	Thr	Ala	Pro	Ala	Pro	Trp	Thr
	130					135					140				

Tyr	Asp	Asn	Ile	Ala	Tyr	Met	Lys	Asn	Gln	Leu	Lys	Met	Leu	Gly	Phe
145					150					155					160
Gly	Tyr	Asp	Trp	Ser	Arg	Glu	Leu	Ala	Thr	Cys	Thr	Pro	Glu	Tyr	Tyr
				165					170					175	
Arg	Trp	Glu	Gln	Lys	Phe	Phe	Thr	Glu	Leu	Tyr	Lys	Lys	Gly	Leu	Val
			180					185					190		
Tyr	Lys	Lys	Thr	Ser	Ala	Val	Asn	Trp	Cys	Pro	Asn	Asp	Gln	Thr	Val
		195					200				205				
Leu	Ala	Asn	Glu	Gln	Val	Ile	Asp	Gly	Cys	Cys	Trp	Arg	Cys	Asp	Thr
	210					215					220				
Lys	Val	Glu	Arg	Lys	Glu	Ile	Pro	Gln	Trp	Phe	Ile	Lys	Ile	Thr	Ala
225					230					235					240
Tyr	Ala	Asp	Glu	Leu	Leu	Asn	Asp	Leu	Asp	Asn	Leu	Asp	His	Trp	Pro
				245				250						255	
Asp	Thr	Val	Lys	Thr	Met	Gln	Arg	Asn	Trp	Ile	Gly	Arg	Ser	Glu	Gly
		260						265					270		
Val	Glu	Ile	Thr	Phe	Asn	Val	Glu	Asn	Tyr	Asp	Gln	Thr	Leu	Thr	Val
		275						280				285			
Tyr	Thr	Thr	Arg	Pro	Asp	Thr	Phe	Met	Gly	Ala	Thr	Tyr	Leu	Ala	Val
	290					295					300				
Ala	Ala	Gly	His	Pro	Leu	Ala	Gln	Asn	Ala	Ala	Glu	Asn	Asn	Pro	Glu
305					310					315					320
Leu	Ala	Thr	Phe	Ile	Asp	Glu	Cys	Arg	Asn	Thr	Lys	Val	Ala	Glu	Ala
				325					330					335	
Asp	Met	Ala	Thr	Met	Glu	Lys	Lys	Gly	Val	Asp	Thr	Gly	Phe	Lys	Ala
			340					345					350		
Ile	His	Pro	Leu	Thr	Gly	Glu	Ala	Ile	Pro	Val	Trp	Ala	Ala	Asn	Phe
		355					360					365			
Val	Leu	Met	Glu	Tyr	Gly	Thr	Gly	Ala	Val	Met	Ala	Val	Pro	Gly	His
	370					375					380				
Asp	Gln	Arg	Asp	Tyr	Glu	Phe	Ala	Thr	Lys	Tyr	Gly	Leu	Thr	Ile	Lys
385					390					395					400
Pro	Val	Ile	Leu	Ala	Ala	Asp	Gly	Ser	Glu	Pro	Asp	Leu	Ser	Glu	Gln
				405					410					415	
Ala	Leu	Thr	Glu	Lys	Gly	Thr	Leu	Phe	Asn	Ser	Gly	Glu	Phe	Ser	Gly
			420					425					430		
Leu	Ser	Phe	Glu	Glu	Gly	Phe	Asn	Ala	Ile	Ala	Asp	Lys	Leu	Ala	Ser
		435					440					445			
Leu	Gly	Val	Gly	Glu	Arg	Lys	Val	Asn	Tyr	Arg	Leu	Arg	Asp	Trp	Gly
	450					455					460				
Val	Ser	Arg	Gln	Arg	Tyr	Trp	Gly	Ala	Pro	Ile	Pro	Met	Val	Thr	Leu
465					470					475					480
Glu	Asp	Gly	Thr	Val	Met	Pro	Thr	Pro	Glu	Asp	Gln	Leu	Pro	Val	Ile
				485					490					495	
Leu	Pro	Glu	Asp	Val	Val	Met	Asp	Gly	Ile	Thr	Ser	Pro	Ile	Lys	Ala
			500					505					510		
Asp	Pro	Glu	Trp	Ala	Lys	Thr	Thr	Val	Asn	Gly	Gln	Pro	Ala	Leu	Arg
		515					520					525			
Glu	Thr	Asp	Thr	Phe	Asp	Thr	Phe	Met	Glu	Ser	Ser	Trp	Tyr	Tyr	Ala
	530					535					540				
Arg	Tyr	Thr	Cys	Pro	Gln	Tyr	Lys	Glu	Gly	Met	Leu	Asp	Ser	Asp	Ala
545					550					555					560
Ala	Asn	Tyr	Trp	Leu	Pro	Val	Asp	Ile	Tyr	Ile	Gly	Gly	Ile	Glu	His
				565					570					575	
Ala	Ile	Met	His	Leu	Leu	Tyr	Phe	Arg	Phe	Phe	His	Lys	Leu	Met	Arg
			580					585					590		
Asp	Ala	Gly	Leu	Val	Asn	Ser	Asp	Glu	Pro	Ala	Lys	Gln	Leu	Leu	Cys
		595					600					605			
Gln	Gly	Met	Val	Leu	Ala	Asp	Ala	Phe	Tyr	Tyr	Val	Gly	Ala	Asn	Gly
	610					615					620				
Glu	Arg	Asn	Trp	Val	Ser	Pro	Val	Asp	Ala	Ile	Val	Glu	Arg	Asp	Glu

625					630					635				640	
Lys	Gly	Arg	Ile	Val	Lys	Ala	Lys	Asp	Ala	Glu	Gly	His	Glu	Leu	Val
				645					650					655	
Tyr	Thr	Gly	Met	Ser	Lys	Met	Ser	Lys	Ser	Lys	Asn	Asn	Gly	Ile	Asp
			660					665					670		
Pro	Gln	Val	Met	Val	Glu	Arg	Tyr	Gly	Ala	Asp	Thr	Val	Arg	Leu	Phe
		675					680					685			
Met	Met	Phe	Ala	Ser	Pro	Ala	Asp	Met	Thr	Leu	Glu	Trp	Gln	Glu	Ser
	690					695					700				
Gly	Val	Glu	Gly	Ala	Asn	Arg	Phe	Leu	Lys	Arg	Val	Trp	Lys	Leu	Val
705					710					715					720
Tyr	Glu	His	Thr	Ser	Gln	Gly	Asp	Ala	Pro	Ala	Leu	Asn	Val	Ala	Ala
				725					730					735	
Leu	Thr	Glu	Asp	Gln	Gln	Ala	Leu	Arg	Arg	Asp	Val	His	Lys	Thr	Ile
			740					745					750		
Ala	Lys	Val	Thr	Asp	Asp	Ile	Gly	Arg	Arg	Gln	Thr	Phe	Asn	Thr	Ala
		755					760					765			
Ile	Ala	Ala	Ile	Met	Glu	Leu	Met	Asn	Lys	Leu	Ala	Lys	Ala	Pro	Gln
	770					775					780				
Asp	Gly	Glu	Gln	Asp	Arg	Ala	Leu	Met	Arg	Glu	Ala	Leu	Leu	Ala	Val
785					790					795					800
Val	Arg	Met	Leu	Asn	Pro	Phe	Thr	Pro	His	Val	Ser	Phe	Thr	Leu	Trp
				805					810					815	
Gln	Glu	Leu	Lys	Gly	Glu	Gly	Asp	Ile	Asp	Asn	Ala	Pro	Trp	Pro	Val
			820				825						830		
Ala	Asp	Glu	Ser	Ala	Met	Val	Glu	Asn	Thr	Thr	Leu	Val	Val	Val	Gln
		835					840					845			
Val	Asn	Gly	Lys	Val	Arg	Gly	Lys	Ile	Thr	Val	Ala	Val	Asp	Ala	Thr
	850					855					860				
Glu	Glu	Gln	Val	Arg	Glu	Arg	Ala	Gly	Gln	Glu	His	Leu	Val	Ala	Lys
865					870					875					880
Tyr	Leu	Glu	Gly	Val	Thr	Val	Arg	Lys	Val	Ile	Tyr	Val	Pro	Gly	Lys
				885					890					895	
Leu	Leu	Asn	Leu	Val	Val	Gly									
			900												

<210> 6975

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 6975

His	Leu	Ser	Arg	Asp	Trp	Arg	Gln	Phe	Arg	Tyr	Thr	Asp	Trp	Pro	Arg
1				5					10					15	
Ile	His	Ser	Cys	Thr	Ile	Ser	Phe	Thr	Gln	Gly	Glu	Asn	Leu	Gln	Gly
			20					25					30		
Lys	Ala	Leu	Gln	Asp	Phe	Val	Ile	Asp	Lys	Ile	Asp	Asp	Leu	Lys	Gly
	35						40					45			
Gln	Asp	Ile	Ile	Ala	Ile	Asp	Val	Lys	Gly	Lys	Ser	Ser	Ile	Thr	Asp
	50					55					60				
Cys	Met	Ile	Ile	Cys	Thr	Gly	Thr	Ser	Thr	Arg	His	Val	Val	Ser	Ile
65					70					75					80
Ala	Asp	His	Val	Val	Gln	Glu	Ser	Arg	Ala	Ala	Gly	Leu	Leu	Pro	Leu
			85						90					95	
Gly	Val	Glu	Gly	Glu	Ala	Thr	Ala	Asp	Trp	Val	Val	Val	Asp	Leu	Gly
		100					105						110		
Asp	Val	Ile	Val	His	Val	Met	Gln	Glu	Glu	Ser	Arg	Arg	Leu	Tyr	Glu
		115					120					125			
Leu	Glu	Lys	Leu	Trp	Gly										
	130						135								

<210> 6976
 <211> 157
 <212> PRT
 <213> Enterobacter cloacae

<400> 6976

Cys	Val	Lys	Leu	Gln	Leu	Val	Ala	Val	Gly	Thr	Lys	Met	Pro	Asp	Trp
1				5					10					15	
Val	Gln	Thr	Gly	Phe	Thr	Glu	Tyr	Leu	Arg	Arg	Phe	Pro	Lys	Asp	Met
			20					25					30		
Pro	Phe	Glu	Leu	Val	Glu	Ile	Pro	Ala	Gly	Lys	Arg	Gly	Lys	Asn	Ala
		35					40					45			
Asp	Ile	Lys	Arg	Ile	Leu	Asp	Lys	Glu	Gly	Glu	Leu	Met	Leu	Ala	Ala
	50					55					60				
Ala	Gly	Lys	Asn	Arg	Ile	Val	Thr	Leu	Asp	Ile	Pro	Gly	Lys	Pro	Trp
65					70					75					80
Asp	Thr	Pro	Gln	Leu	Ala	His	Glu	Leu	Glu	Arg	Trp	Lys	Gln	Asp	Gly
			85						90					95	
Arg	Asp	Val	Ser	Leu	Leu	Ile	Gly	Gly	Pro	Glu	Gly	Leu	Ser	Pro	Ala
			100					105					110		
Cys	Lys	Ala	Ala	Ala	Glu	Gln	Ser	Trp	Ser	Leu	Ser	Ala	Leu	Thr	Leu
		115					120					125			
Pro	His	Pro	Leu	Val	Arg	Val	Leu	Val	Ala	Glu	Ser	Leu	Tyr	Arg	Ala
	130					135						140			
Trp	Ser	Ile	Thr	Thr	Asn	His	Pro	Tyr	His	Arg	Glu				
145					150					155					

<210> 6977
 <211> 383
 <212> PRT
 <213> Enterobacter cloacae

<400> 6977

Lys	Pro	Gly	Ser	Arg	Cys	Gly	Gly	Gly	Pro	Ile	Ile	Met	Thr	Asp	Asn
1				5					10					15	
Pro	Asn	Lys	Lys	Ser	Leu	Trp	Asp	Lys	Ile	His	Ile	Asp	Pro	Ala	Met
			20					25					30		
Leu	Leu	Ile	Leu	Leu	Ala	Leu	Leu	Val	Tyr	Ser	Ala	Leu	Val	Ile	Trp
		35					40					45			
Ser	Ala	Ser	Gly	Gln	Asp	Ile	Gly	Met	Met	Glu	Arg	Lys	Ile	Gly	Gln
	50					55					60				
Ile	Ala	Met	Gly	Leu	Val	Ile	Met	Val	Val	Met	Ala	Gln	Ile	Pro	Pro
65					70					75					80
Arg	Val	Tyr	Glu	Gly	Trp	Ala	Pro	Tyr	Leu	Tyr	Ile	Phe	Cys	Ile	Ile
			85					90					95		
Leu	Leu	Val	Ala	Val	Asp	Ala	Phe	Gly	Ala	Ile	Ser	Lys	Gly	Ala	Gln
			100					105					110		
Arg	Trp	Leu	Asp	Leu	Gly	Ile	Val	Arg	Phe	Gln	Pro	Ser	Glu	Ile	Ala
		115					120					125			
Lys	Ile	Ala	Val	Pro	Leu	Met	Val	Ala	Arg	Phe	Ile	Asn	Arg	Asp	Val
	130					135					140				
Cys	Pro	Pro	Ser	Leu	Lys	Asn	Thr	Ala	Ile	Ala	Leu	Val	Leu	Ile	Phe
145					150					155					160
Leu	Pro	Thr	Leu	Leu	Val	Ala	Ala	Gln	Pro	Asp	Leu	Gly	Thr	Ser	Ile
			165					170						175	
Leu	Ile	Ala	Leu	Ser	Gly	Leu	Phe	Val	Leu	Phe	Leu	Ser	Gly	Leu	Ser
		180					185						190		
Trp	Arg	Leu	Ile	Gly	Ile	Ala	Val	Val	Leu	Val	Ala	Ala	Phe	Ile	Pro
		195				200						205			
Ile	Leu	Trp	Phe	Phe	Leu	Met	His	Asp	Tyr	Gln	Arg	Gln	Arg	Val	Met
210						215					220				

Met Leu Leu Asp Pro Glu Thr Asp Pro Leu Gly Ala Gly Tyr His Ile
 225 230 235 240
 Ile Gln Ser Lys Ile Ala Ile Gly Ser Gly Gly Leu Arg Gly Lys Gly
 245 250 255
 Trp Leu His Gly Thr Gln Ser Gln Leu Glu Phe Leu Pro Glu Arg His
 260 265 270
 Thr Asp Phe Ile Phe Ala Val Leu Ala Glu Glu Leu Gly Leu Val Gly
 275 280 285
 Ile Leu Val Leu Leu Ala Leu Tyr Val Leu Leu Ile Met Arg Gly Leu
 290 295 300
 Trp Ile Ala Ala Arg Ala Gln Thr Thr Phe Gly Arg Val Met Ala Gly
 305 310 315 320
 Gly Leu Met Leu Ile Leu Phe Val Tyr Val Phe Val Asn Ile Gly Met
 325 330 335
 Val Ser Gly Ile Leu Pro Val Val Gly Val Pro Leu Pro Leu Val Ser
 340 345 350
 Tyr Gly Gly Ser Ala Leu Ile Val Leu Met Ala Gly Phe Gly Ile Val
 355 360 365
 Met Ser Ile His Thr His Arg Lys Met Leu Ser Lys Ser Val
 370 375 380

<210> 6978

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6978

Gly Leu Leu Leu Glu Thr Val Thr Tyr Pro Gly Gly Lys Met Met Asn
 1 5 10 15
 Lys Val Ala Gln Phe Tyr Arg Glu Leu Val Ala Thr Leu Thr Glu Arg
 20 25 30
 Leu Arg Asn Gly Glu Arg Asp Ile Asp Ala Leu Val Glu Gln Ala Arg
 35 40 45
 Ala Arg Val Thr Gln Thr Gly Glu Leu Thr Arg Thr Glu Val Glu Glu
 50 55 60
 Val Thr Arg Ala Val Arg Arg Asp Leu Glu Glu Phe Ala Arg Ser Tyr
 65 70 75 80
 Glu Glu Ser Gln Asp Glu Ile Ala Asp Ser Val Phe Met Arg Val Ile
 85 90 95
 Lys Glu Ser Leu Trp Gln Glu Leu Ala Asp Ile Thr Asp Lys Thr Gln
 100 105 110
 Leu Glu Trp Arg Glu Val Phe Gln Asp Leu Asn His His Gly Val Tyr
 115 120 125
 His Ser Gly Glu Val Val Gly Leu Gly Asn Leu Val Cys Glu Lys Cys
 130 135 140
 His His His Ile Ala Val Tyr Thr Pro Glu Val Leu Ser Leu Cys Pro
 145 150 155 160
 Lys Cys Gly His Asp Gln Phe Gln Arg Arg Pro Phe Glu Pro
 165 170 175

<210> 6979

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6979

Leu Tyr Ala Gln Asn Thr Cys Cys Ser Glu Thr Glu Ala Glu Pro Gly
 1 5 10 15
 Met Asn Thr Phe Phe Lys Leu Thr Ala Leu Ala Gly Leu Phe Ala Ile
 20 25 30
 Thr Gly His Ala Phe Ala Val Asp Asp Ile Thr Arg Val Asp Gln Ile

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<210> 6980
<211> 118
<212> PRT
<213> Enterobacter cloacae
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<210> 6981
<211> 281
<212> PRT
<213> Enterobacter cloacae
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<400> 6981																
Thr	Leu	Ile	Asn	Thr	His	Arg	Asn	His	Ile	Met	Lys	Lys	Thr	Leu	Thr	
1				5					10					15		
Leu	Ile	Ala	Ala	Ala	Thr	Leu	Ser	Ala	Leu	Ser	Phe	Ala	Ser	Trp	Ala	
			20					25					30			
Asp	Thr	Leu	Thr	Val	Gly	Ala	Ser	Asn	Thr	Pro	His	Ala	Glu	Ile	Leu	
		35					40					45				
Glu	Gln	Ala	Lys	Pro	Ile	Leu	Ala	Lys	Gln	Gly	Ile	Asp	Leu	Glu	Ile	
	50					55					60					
Lys	Pro	Phe	Gln	Asp	Tyr	Ile	Leu	Pro	Asn	Thr	Ala	Leu	Ala	Gly	His	
65					70					75					80	
Asp	Ile	Asp	Ala	Asn	Tyr	Phe	Gln	His	Ile	Pro	Tyr	Leu	Asn	Ser	Val	
				85					90					95		
Leu	Lys	Asp	His	Ala	Gly	Asp	Lys	Asp	Tyr	Asp	Phe	Val	Ser	Ala	Gly	
			100					105					110			
Ala	Ile	His	Ile	Glu	Pro	Ile	Gly	Ile	Tyr	Ser	Lys	Lys	Tyr	Lys	Ser	
		115					120					125				

Leu Lys Asp Leu Pro Glu Gly Gly Lys Ile Ile Met Arg Asp Ala Val
 130 135 140
 Ser Glu Glu Gly Arg Ile Leu Ser Ile Phe Glu Lys Glu Gly Val Ile
 145 150 155 160
 Lys Leu Lys Pro Gly Ile Asp Lys Val Thr Ala Arg Ile Ser Asp Ile
 165 170 175
 Val Glu Asn Pro Lys Lys Leu Gln Phe Thr Pro Asn Val Glu Ala Ser
 180 185 190
 Leu Leu Pro Gln Met Tyr Asn Asn Asp Glu Gly Ala Ala Val Val Ile
 195 200 205
 Asn Ala Asn Tyr Ala Ile Asp Ala Gly Leu Asp Pro Val His Asp Pro
 210 215 220
 Ile Ala Val Glu Ser Gly Glu Asn Asn Pro Tyr Ala Asn Ile Ile Thr
 225 230 235 240
 Val His Arg Gly Asp Glu Lys Lys Lys Asp Ile Val Ala Leu Val Asn
 245 250 255
 Val Leu His Ser Lys Glu Ile Gln Asp Trp Ile Arg Thr Lys Tyr Lys
 260 265 270
 Gly Ala Val Ile Pro Val Asn Asn
 275 280

<210> 6982

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6982

Gly Asn Gly Val Met Ala Met Gly Asn Val Thr Lys Asp Glu Ala Leu
 1 5 10 15
 Tyr Gln Glu Met Cys Arg Val Val Gly Lys Val Val Leu Glu Met Arg
 20 25 30
 Asp Leu Gly Gln Glu Pro Lys His Ile Val Ile Ala Gly Val Leu Arg
 35 40 45
 Thr Ala Leu Ala Asn Gln Arg Val Lys Arg Ser Glu Leu Thr Thr Lys
 50 55 60
 Ala Met Glu Thr Val Val Lys Ala Leu Ala Gly
 65 70 75

<210> 6983

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6983

Arg Ile Arg Met Ile Val Leu Ser Asn Ile Ser Lys Val Phe Asp Asn
 1 5 10 15
 Gly Lys Leu Ala Leu Thr Ala Val Asp Asn Val Asn Leu Thr Ile Glu
 20 25 30
 Gln Gly Gln Ile Tyr Gly Ile Ile Gly Tyr Ser Gly Ala Gly Lys Ser
 35 40 45
 Thr Leu Ile Arg Leu Leu Asn Gly Leu Glu Lys Pro Ser Ala Gly Ser
 50 55 60
 Val Thr Ile Asn Gly Gln Asp Ile Ser Ala Ala Lys Gly Glu Ala Leu
 65 70 75 80
 Arg Gln Ala Arg Leu Lys Ile Ser Met Val Phe Gln His Phe Asn Leu
 85 90 95
 Leu Trp Ser Arg Thr Val Lys Glu Asn Ile Ala Phe Ser Met Gln Ile
 100 105 110
 Ala Gly Val Pro Lys Ala Gln Ile Gln Ala Arg Val Ala Glu Leu Val
 115 120 125
 Glu Leu Val Gly Leu Lys Gly Arg Glu Asn Ala Tyr Pro Ser Gln Leu

130	135	140
Ser Gly Gly Gln Lys Gln Arg Val Gly Ile Ala Arg Ala Leu Ala Asn		
145	150	155
His Pro Asp Val Leu Leu Cys Asp Glu Ala Thr Ser Ala Leu Asp Pro		
	165	170
Gln Thr Thr Asp Gln Ile Leu Asp Leu Leu Leu Asp Ile Asn Arg Arg		
	180	185
Phe Asn Leu Thr Ile Val Leu Ile Thr His Glu Met His Val Val Arg		
	195	200
Lys Ile Cys Asp Arg Val Ala Val Met Glu Asn Gly Lys Val Val Glu		
	210	215
Glu Gly Asp Val Leu Ser Val Phe Thr His Pro Gln Gln Pro Ile Thr		
225	230	235
Arg Gln Phe Val Arg Gln Val Ser Gln Tyr Ala Glu Glu Glu Thr Phe		
	245	250
Asn Thr Glu Leu Ala Asn Asp Leu Glu Gly Thr Val Ile Arg Leu Thr		
	260	265
Phe Thr Gly His Ser Thr His Arg Pro Ile Val Gly Glu Leu Thr Leu		
	275	280
Arg Tyr Gly Leu Pro Phe Asn Ile Leu His Gly Lys Met Thr Gln Thr		
	290	295
Ala His Gly Val Phe Gly Gln Leu Trp Val His Val Val Ala Ser Asp		
305	310	315
Glu Gln Leu Asn Asn Ile Leu Ala Asp Leu Lys Gln Ser Asp Ile Glu		
	325	330
Gly Glu Val Ile Lys His Gly		
	340	

<210> 6984

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6984

Arg Thr Leu Ser Ala Pro Glu Val Gly Ser Ala Leu Gly Cys Asn Pro	
1	5
Gly Asp Ala Leu His Asp Cys Ala Phe Pro Ala Trp Arg Arg Leu Phe	
	20
Leu Gly Ile Ala Leu Gly Leu Ala Leu Phe Leu Thr Ala Arg Gly Gly	
	35
Leu Phe His Asn Arg Thr Val Tyr Ser Val Met Ser Ile Val Val Asn	
	50
Val Phe Arg Ser Ile Pro Phe Ile Ile Leu Ile Val Leu Leu Ile Pro	
65	70
Phe Thr Lys Thr Val Val Gly Thr Ile Leu Gly Ala Asn Ala Ala Leu	
	85
Pro Ala Leu Ile Val Gly Ala Ala Pro Phe Tyr Ala Arg Leu Val Glu	
	100
Ile Ala Leu Arg Glu Val Asp Lys Gly Val Ile Glu Ala Thr Arg Ser	
	115
Met Gly Ala Arg Leu Ser Thr Leu Val Phe Arg Val Leu Leu Pro Glu	
	130
Ser Ser Pro Ala Leu Val Ser Gly Met Thr Val Thr Leu Ile Ala Leu	
145	150
Val Ser Tyr Ser Ala Met Ala Gly Val Ile Gly Ala Gly Gly Leu Gly	
	165
Asn Leu Ala Tyr Leu Glu Gly Phe Gln Arg Asn His Gly Asp Val Thr	
	180
Leu Val Ala Thr Val Thr Ile Leu Ile Ile Val Phe Ile Ile Gln Phe	
	195
Cys Gly Asp Ala Ile Thr Ser Leu Leu Asp Lys Arg	
	200
	205

210

215

220

<210> 6985

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 6985

Arg	Gly	Lys	Thr	Lys	Thr	Thr	Gly	Trp	Arg	Met	Thr	Met	Ala	Ala	Lys
1				5					10					15	
Met	Lys	Gly	Phe	Lys	Lys	Arg	Ala	Gln	Val	Leu	Gly	Leu	Val	Ala	Trp
			20					25					30		
Gly	Leu	Val	Ser	Ala	Gln	Ala	Gln	Ala	Asp	Arg	Leu	Ala	Asp	Ile	Lys
		35					40					45			
Ala	Ala	Gly	Val	Val	Lys	Val	Ala	Thr	Phe	Asp	Ala	Asn	Pro	Pro	Phe
		50				55					60				
Gly	Ser	Ile	Asp	Ala	Lys	Thr	His	Glu	Ile	Val	Gly	Tyr	Asp	Val	Asp
65					70					75				80	
Phe	Ala	Lys	Ala	Leu	Ala	Lys	Ser	Leu	Gly	Val	Lys	Leu	Glu	Leu	Val
				85					90					95	
Ala	Thr	Asn	Pro	Ala	Asn	Arg	Ile	Pro	Leu	Leu	Gln	Ser	Gly	Lys	Ala
			100					105					110		
Asp	Leu	Ile	Val	Ala	Asp	Ile	Thr	Ile	Thr	Pro	Glu	Arg	Ala	Gln	Val
		115					120					125			
Ile	Asp	Phe	Ser	Thr	Pro	Tyr	Phe	Val	Thr	Gly	Gln	Gln	Phe	Leu	Val
	130					135					140				
Pro	Ala	Lys	Ser	Pro	Asp	Lys	Leu	Asp	Asp	Tyr	Ser	Arg	Ala	Arg	Ile
145					150					155					160
Gly	Ala	Val	Lys	Gly	Thr	Thr	Gly	Glu	Gln	Ala	Leu	His	Gln	Arg	Phe
				165					170					175	
Pro	Gln	Ser	Arg	Val	Leu	Ser	Tyr	Asp	Asp	Ile	Pro	Leu	Ala	Leu	Thr
			180					185					190		
Ala	Leu	Arg	Asn	Gly	Asn	Val	Gln	Ala	Ile	Thr	Gln	Asp	Ser	Thr	Ile
		195					200					205			
Leu	Ala	Gly	Leu	Leu	Ala	Gln	Ala	Pro	Asp	Lys	Ala	Asp	Phe	Lys	Ile
	210					215					220				
Leu	Pro	Asp	Leu	Leu	Ser	Lys	Glu	Glu	Ile	Gly	Val	Gly	Val	Lys	Lys
225					230					235				240	
Gly	Glu	Thr	Ala	Leu	Leu	Lys	Ala	Val	Asn	Asp	Glu	Leu	Val	Asn	Leu
				245					250					255	
Glu	Lys	Asn	Gly	Gln	Ala	Ala	Lys	Ile	Tyr	Asp	Val	Trp	Phe	Gly	Pro
			260				265						270		
Gly	Ser	Pro	Ala	Pro	Gln	Pro	Arg	Asn	Phe	Lys	Ile	Glu	Ala	Arg	
		275					280						285		

<210> 6986

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 6986

Asp	Ala	Val	Arg	Pro	Gly	Asn	Cys	Arg	Ser	Asn	Arg	Leu	Tyr	Arg	Arg
1				5					10					15	
Trp	Thr	His	Ser	Gly	Asn	Arg	Val	Pro	Gly	Ala	Ile	Phe	Gln	Pro	Thr
			20					25					30		
Val	Ala	Ser	Ala	Cys	Glu	Ala	Val	Pro	Ala	Lys	Ser	Ala	Gly	Ser	Ala
		35					40					45			
Ala	Ser	Gly	Ala	Thr	Val	Met	Pro	Ala	Leu	Asp	Trp	Gln	Gly	Val	Leu
	50					55					60				
Ala	Gly	Gln	Pro	Leu	His	Trp	Ile	Leu	Ser	Gly	Phe	Leu	Thr	Thr	Leu
65					70					75					80

Trp	Val	Thr	Leu	Ala	Gly	Ile	Met	Leu	Ala	Ser	Leu	Leu	Ala	Leu	Phe
				85					90					95	
Phe	Met	Leu	Leu	Arg	Leu	Ser	Gly	Gly	Arg	Leu	Gly	Thr	Ser	Phe	Val
			100					105					110		
Ser	Gly	Trp	Val	Ser	Leu	Phe	Arg	Asn	Thr	Pro	Leu	Leu	Val	Gln	Leu
		115					120					125			
Leu	Phe	Trp	Tyr	Phe	Ala	Ala	Trp	Asn	Gly	Leu	Pro	Gln	Glu	Leu	Arg
		130				135					140				
Asp	Ala	Val	Asn	Ala	Asp	His	Ser	Trp	Ser	Ile	Leu	Pro	Gly	Asp	Val
145					150					155					160
Trp	Trp	Phe	Thr	Pro	Glu	Phe	Leu	Cys	Ser	Ala	Trp	Gly	Leu	Gly	Val
				165					170					175	
Phe	Thr	Ser	Ala	Phe	Leu	Ile	Glu	Glu	Val	Glu	Ser	Gly	Leu	Arg	Ser
			180					185					190		
Val	Pro	Ala	Gly	Gln	Arg	Glu	Ala	Ala	Leu	Ala	Gln	Gly	Phe	Ser	Ser
		195					200					205			
Trp	Arg	Leu	Phe	Arg	Tyr	Ile	Leu	Leu	Pro	Gln	Gly	Leu	Ala	Asn	Ala
		210				215					220				
Trp	Gln	Pro	Val	Val	Gly	Gln	Tyr	Leu	Asn	Leu	Met	Lys	Leu	Ser	Ser
225					230					235					240
Leu	Ala	Ser	Gly	Ile	Gly	Phe	Ala	Glu	Leu	Thr	Tyr	Gln	Val	Arg	Gln
				245					250					255	
Ile	Glu	Ser	Tyr	Asn	Ala	His	Ala	Leu	Glu	Ala	Phe	Thr	Val	Gly	Thr
			260					265					270		
Val	Leu	Tyr	Leu	Leu	Thr	Gly	Met	Val	Thr	Gly	Ser	Val	Leu	Val	Arg
		275					280					285			
Leu	Gly	Pro	His	Ser	Gly	Arg	Lys	Asn	His	Asp	Pro	Arg	Ile		
	290					295					300				

<210> 6987

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6987

Lys	Pro	Gly	Asn	Met	Leu	Ser	Gly	Leu	Phe	Ser	His	Ser	Ala	Ala	Asn
1				5					10					15	
Ala	Ala	Asp	Phe	Ser	Arg	Leu	Glu	Gln	Ala	Ser	Val	Glu	Phe	Arg	His
			20					25					30		
Val	Asp	Lys	Arg	Tyr	Gly	Asp	His	Pro	Val	Leu	Thr	Asp	Ile	Asn	Leu
		35				40						45			
Thr	Ile	Met	Pro	Gly	Glu	Val	Val	Ala	Ile	Leu	Gly	Pro	Ser	Gly	Ser
		50				55					60				
Gly	Lys	Ser	Thr	Leu	Ile	Arg	Leu	Ile	Asn	Gln	Leu	Glu	Ser	Leu	Ser
65					70				75						80
Gly	Gly	Glu	Ile	Leu	Val	Asp	His	Lys	Pro	Thr	Gly	Gln	Leu	Ser	Gly
				85					90					95	
Ser	Arg	Leu	Arg	Gln	Leu	Arg	Ser	Arg	Val	Gly	Phe	Val	Phe	Gln	Gln
			100					105					110		
Phe	Asn	Leu	Tyr	Ala	His	Leu	Thr	Ala	Ser	Gln	Asn	Ile	Thr	Leu	Ala
		115					120					125			
Leu	Glu	His	Val	His	Gly	Trp	Lys	Pro	Met	Pro	Ala	Gln	Glu	Arg	Ala
		130				135					140				
Leu	Ala	Leu	Leu	Glu	Lys	Val	Gly	Met	Leu	Glu	Lys	Ala	His	Arg	Tyr
145					150					155					160
Pro	Ala	Glu	Leu	Ser	Gly	Gly	Gln	Gln	Gln	Arg	Val	Ala	Ile	Ala	Arg
				165					170					175	
Ala	Leu	Ala	Ser	Pro	Gln	Ile	Ile	Leu	Phe	Asp	Glu	Pro	Thr	Ser	
			180				185					190			
Ala	Leu	Asp	Pro	Glu	Met	Ile	Gly	Glu	Val	Leu	Leu	Val	Met	Lys	Ala
		195					200					205			

Leu Ala His Ser Gly Ile Thr Met Ile Val Val Thr His Glu Met Gln
 210 215 220
 Phe Ala Arg Glu Ile Ala Asp Arg Ile Val Phe Ile Asp Gly Gly His
 225 230 235 240
 Ile Leu Glu Thr Ala Ser Pro Ala Gln Phe Phe Asn Gln Pro Ser His
 245 250 255
 Pro Arg Ala Arg Arg Phe Leu Gln Lys Val Leu Asp Pro Leu Arg Gln
 260 265 270
 Glu Gln Leu
 275

<210> 6988

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 6988

Arg Gly Ala Cys Trp Cys Ala Ser Ala Pro Ile Gln Gly Gly Lys Ile
 1 5 10 15
 Met Ile Pro Gly Phe Asn Val Ile Val Glu Asn Leu Asp Tyr Leu Leu
 20 25 30
 Trp Gly Arg Ala Ile Ala Gly Glu Pro Gly Gly Val Leu Ser Leu
 35 40 45
 Leu Met Ala Ala Gly Ala Ala Ala Leu Ala Leu Pro Gly Gly Ile Val
 50 55 60
 Leu Ala Cys Val Ala Trp Arg Tyr Pro Gly Val Val Arg Ser Ala Leu
 65 70 75 80
 Phe Ala Trp Ala Glu Leu Ile Arg Gly Ile Pro Leu Ile Phe Val Ile
 85 90 95
 Phe Trp Met Trp Tyr Leu Leu Pro Leu Ile Thr Gly Arg Asp Leu Pro
 100 105 110
 Gly Ala Thr Thr Val Thr Leu Ala Leu Ala Trp Phe Thr Ala Ala Ala
 115 120 125
 Val Met His Ser Val Leu Ala Gly Leu Arg Ala Leu Pro Ser Gly Gln
 130 135 140
 Asn Glu Ala Ala Leu Ser Gln Gly Phe Ser Thr Gln Gln Thr Leu Trp
 145 150 155 160
 Arg Val Leu Leu Pro Gln Ala Leu Arg Asn Ile Leu Pro Ser Leu Val
 165 170 175
 Gly Ile Phe Ile Ser Leu Leu Lys Asp Thr Ser Leu Ala Phe Ile Val
 180 185 190
 Asn Val Pro Glu Leu Thr Thr Val Ala Gly Gln Val Asn Asn Arg Val
 195 200 205
 Gln Ile Tyr Pro Ala Ala Ile Phe Ile Phe Thr Gly Val Ile Tyr Tyr
 210 215 220
 Leu Leu Cys Cys Ser Leu Glu Leu Leu Ala Lys Arg Trp Arg Val Ser
 225 230 235 240
 Arg Pro Ala Leu
 245

<210> 6989

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6989

Leu Arg Gly Gly Ala Pro Pro Glu Arg Asp Phe His Ile Leu Pro Asn
 1 5 10 15
 Leu Lys Thr Lys Thr Val Met Lys Lys Thr Lys Ile Val Cys Thr Ile
 20 25 30
 Gly Pro Lys Thr Glu Ser Glu Glu Met Leu Ser Lys Met Leu Asp Ala

		35				40				45					
Gly	Met	Asn	Val	Met	Arg	Leu	Asn	Phe	Ser	His	Gly	Asp	Tyr	Ala	Glu
	50					55					60				
His	Gly	Gln	Arg	Ile	Gln	Asn	Leu	Arg	Asn	Val	Met	Ser	Lys	Thr	Gly
65					70					75					80
Lys	Lys	Ala	Ala	Ile	Leu	Leu	Asp	Thr	Lys	Gly	Pro	Glu	Ile	Arg	Thr
				85					90					95	
Ile	Lys	Leu	Glu	Gly	Gly	Asn	Asp	Val	Ser	Leu	Lys	Ala	Gly	Gln	Thr
			100					105					110		
Phe	Thr	Phe	Thr	Thr	Asp	Lys	Ser	Val	Val	Gly	Asn	Asn	Glu	Ile	Val
		115					120					125			
Ala	Val	Thr	Tyr	Glu	Gly	Phe	Thr	Ser	Asp	Leu	Ser	Val	Gly	Asn	Thr
	130					135					140				
Val	Leu	Val	Asp	Asp	Gly	Leu	Ile	Gly	Met	Glu	Val	Thr	Ala	Ile	Glu
145					150					155					160
Gly	Asn	Lys	Val	Ile	Cys	Lys	Val	Leu	Asn	Asn	Gly	Asp	Leu	Gly	Glu
			165						170					175	
Asn	Lys	Gly	Val	Asn	Leu	Pro	Gly	Val	Ser	Ile	Ala	Leu	Pro	Ala	Leu
			180					185					190		
Ala	Glu	Lys	Asp	Lys	Gln	Asp	Leu	Ile	Phe	Gly	Cys	Glu	Gln	Gly	Val
		195					200					205			
Asp	Phe	Val	Ala	Ala	Ser	Phe	Ile	Arg	Lys	Arg	Ser	Asp	Val	Val	Glu
	210					215					220				
Ile	Arg	Glu	His	Leu	Lys	Ala	His	Gly	Gly	Glu	Asn	Ile	Gln	Ile	Ile
225					230					235					240
Ser	Lys	Ile	Glu	Asn	Gln	Glu	Gly	Leu	Asn	Asn	Phe	Asp	Glu	Ile	Leu
				245					250					255	
Glu	Ala	Ser	Asp	Gly	Ile	Met	Val	Ala	Arg	Gly	Asp	Leu	Gly	Val	Glu
			260					265					270		
Ile	Pro	Gly	Cys	Arg	Ser	Val	Phe	Thr	Thr	Gly	Ala	Gly	Thr	Asn	Arg
		275					280					285			
Ile	Lys	Arg	Gly												
	290														

<210> 6990

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 6990

Leu	Ser	Ala	Ile	Cys	Ile	Ser	Gly	His	Thr	His	Pro	Ala	Lys	Ser	Val
1				5					10					15	
Asn	Phe	Ala	Ala	Leu	Tyr	Ala	Asp	Leu	Ala	Ile	Leu	Thr	Ser	Gly	Gln
		20						25					30		
Leu	Tyr	Val	Leu	Leu	Ser	Phe	His	Leu	Lys	Ile	Gln	Gly	Leu	Phe	Leu
		35					40					45			
Ser	Val	Leu	Lys	Pro	Gly	Glu	Thr	Phe	Phe	Ile	Glu	Lys	Ile	Ser	Trp
	50					55					60				
Phe	Tyr	His	Pro	Val	Ile	Thr	Ser	Ser	Gln	Asp	Met	Thr	Met	Thr	Leu
65					70					75					80
Tyr	His	Ser	Val	Thr	Glu	Leu	Ile	Gly	Arg	Thr	Pro	Leu	Ile	Gln	Leu
				85					90					95	
His	Lys	Leu	Asp	Thr	Gly	Pro	Cys	Ser	Leu	Phe	Leu	Lys	Leu	Glu	Asn
			100					105					110		
Gln	Asn	Pro	Gly	Gly	Ser	Ile	Lys	Asp	Arg	Val	Ala	Leu	Ser	Met	Ile
		115					120					125			
Asn	Glu	Ala	Glu	Arg	Thr	Gly	Gln	Leu	Arg	Pro	Gly	Gly	Thr	Ile	Ile
	130					135					140				
Glu	Ala	Thr	Ala	Gly	Asn	Thr	Gly	Leu	Gly	Leu	Ala	Leu	Ile	Ala	Ala
145					150					155					160
Gln	Lys	Gly	Tyr	Ser	Leu	Ile	Leu	Val	Val	Pro	Asp	Lys	Met	Ser	Arg

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<210> 6991
<211> 386
<212> PRT
<213> Enterobacter cloacae
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Lys	Glu	Gln	Lys	Met	Lys	Asn	Leu	Ala	Thr	Leu	Ser	Val	His	Ser	Gly
1				5					10					15	
Glu	Tyr	His	Asp	Pro	His	Gly	Ala	Val	Met	Pro	Pro	Ile	Tyr	Ala	Thr
			20					25					30		
Ser	Thr	Phe	Ala	Gln	Pro	Ala	Pro	Gly	Glu	His	Thr	Gly	Tyr	Glu	Tyr
		35					40					45			
Ser	Arg	Ser	Gly	Asn	Pro	Thr	Arg	His	Ala	Leu	Glu	Thr	Ala	Ile	Ala

50	55	60
Glu Leu Glu Gly Gly Thr Arg Gly Tyr Ala Phe Ala Ser Gly Leu Ala		
65	70	75
Ala Ile Ser Thr Val Leu Glu Leu Leu Asp Gln Asp Ser His Ile Val		80
	85	90
Ala Ile Asp Asp Val Tyr Gly Gly Thr Tyr Arg Leu Ile Glu Asn Val		95
	100	105
Arg Lys Arg Ser Thr Gly Leu Gln Val Ser Trp Val Lys Pro Asp Asp		110
	115	120
Val Ala Gly Leu Glu Ala Ala Ile Arg Pro Asp Thr Arg Met Ile Trp		125
	130	135
Val Glu Thr Pro Thr Asn Pro Leu Leu Lys Leu Ala Asp Leu Glu Ala		140
145	150	155
Ile Ala Asp Ile Ala Arg Arg His Asn Ala Ile Ser Val Ala Asp Asn		160
	165	170
Thr Phe Ala Ser Pro Val Ile His Arg Pro Leu Glu Ala Gly Phe Asp		175
	180	185
Ile Val Val His Ser Ala Thr Lys Tyr Leu Asn Gly His Ser Asp Val		190
	195	200
Val Ala Gly Leu Ala Val Val Gly Ala Asn Lys Asp Leu Ala Glu Arg		205
	210	215
Leu Gly Tyr Leu Gln Asn Ala Ile Gly Gly Val Leu Asp Pro Phe Ser		220
225	230	235
Ser Phe Leu Thr Leu Arg Gly Ile Arg Thr Leu Ser Leu Arg Val Glu		240
	245	250
Lys His Ser Ala Asn Ala Leu Ala Ile Ala Gln Trp Leu Glu Gln His		255
	260	265
Pro Gln Val Asp Ser Val Phe Tyr Pro Gly Leu Ala Ser His Pro Gln		270
	275	280
Tyr Ala Leu Ala Arg Arg Gln Met Ala Leu Pro Gly Gly Met Ile Ser		285
	290	295
Val Val Ile Lys Gly Asp Ala Gln Arg Ala Thr Glu Val Ile Arg His		300
305	310	315
Leu Thr Leu Phe Thr Leu Ala Glu Ser Leu Gly Gly Val Glu Ser Leu		320
	325	330
Val Ser Gln Pro Tyr Ser Met Thr His Ala Ser Ile Pro Leu Ala Gln		335
	340	345
Arg Leu Ala Asn Gly Ile Val Pro Gln Leu Ile Arg Leu Ser Val Gly		350
	355	360
Ile Glu Asp Ala Lys Asp Leu Ile Ala Asp Leu Lys Gln Ala Leu Lys		365
	370	375
		380
Lys		
385		

<210> 6992

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 6992

Gly Arg Glu Ala His Gln Gly Lys Gly Gly Phe Glu Lys Met Gly Ile	
1	5
Gly Ala Ser Leu Lys Gln Leu Gly Pro Gln Gly Met Gln Ile Ser Asp	
	10
	15
	20
Asp Val Lys Gly Thr Ser Pro Asp Arg Leu Thr Gly Thr Asp Val Met	
	25
	30
	35
	40
	45
Ala Ala Ile Gly Thr Thr Ser Ser Arg Ala Arg Phe Gly Leu Ala Ala	
	50
	55
Phe Phe Gly Lys Ala Gly Ile Ser Lys Thr Asp Glu Gln Leu Ala Val	
	60
	65
	70
	75
Gln Ala Leu Ala Arg Tyr Ala Met Asp Val Ala Pro Lys Asn Val Arg	
	80


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<210> 6993
<211> 121
<212> PRT
<213> Enterobacter cloacae
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<210> 6994
<211> 590
<212> PRT
<213> Enterobacter cloacae
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<400> 6994
Pro Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
1 5 10 15
Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
20 25 30
Cys Glu Tyr Val Arg Leu Ala Cys Gln Arg Phe Leu Asp Asp Leu Ala
35 40 45

His	Gly	Glu	Glu	Arg	Gly	Ile	Phe	Phe	Ser	Glu	Pro	Arg	Ala	Gln	His
	50					55					60				
Ile	Leu	Asn	Phe	Tyr	Asn	Phe	Val	Pro	His	Val	Lys	Gly	Ala	Leu	Ala
65					70					75					80
Gly	Gln	Pro	Ile	Glu	Leu	Met	Asp	Trp	His	Val	Phe	Ile	Leu	Ile	Asn
				85					90					95	
Ile	Phe	Gly	Phe	Val	Ile	Pro	Leu	Val	Asn	Glu	Glu	Thr	Gly	Glu	Thr
			100					105					110		
Val	Leu	Arg	Asn	Asp	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Arg	Arg	Phe
		115					120					125			
Arg	Thr	Ala	Asp	Val	Glu	Val	Ala	Arg	Lys	Asn	Ala	Lys	Ser	Thr	Leu
		130					135				140				
Cys	Ser	Gly	Val	Gly	Leu	Tyr	Met	Ala	Gly	Ala	Asp	Gly	Glu	Gly	Gly
145					150					155					160
Ala	Glu	Val	Tyr	Ser	Ala	Ala	Thr	Thr	Arg	Asp	Gln	Ala	Arg	Ile	Val
				165					170					175	
Phe	Glu	Asp	Ala	Lys	Asn	Met	Val	Lys	Lys	Ala	Lys	Ala	Thr	Leu	Gly
			180					185						190	
Arg	Ile	Phe	Glu	Phe	Asn	Lys	Leu	Ala	Ile	Tyr	Gln	Glu	Gln	Ala	Ala
		195					200					205			
Ser	Lys	Phe	Glu	Pro	Leu	Ser	Ser	Asp	Ala	Asn	Asn	Leu	Asp	Gly	Leu
		210				215					220				
Asn	Ile	His	Cys	Ala	Ile	Val	Asp	Glu	Leu	His	Ala	His	Lys	Thr	Arg
225					230					235					240
Asp	Val	Trp	Asp	Val	Leu	Glu	Thr	Ala	Thr	Gly	Ala	Arg	Leu	Gln	Ser
				245					250					255	
Leu	Leu	Phe	Gly	Ile	Thr	Thr	Ala	Gly	Phe	Asn	Lys	Glu	Gly	Ile	Cys
			260					265					270		
Tyr	Glu	Leu	Arg	Asp	Tyr	Ala	Ile	Lys	Val	Leu	Arg	Gly	Leu	Val	Lys
		275					280					285			
Asp	Asp	Thr	Phe	Phe	Ala	Ile	Ile	Tyr	Thr	Leu	Asp	Glu	Gly	Asp	Asp
		290				295					300				
Pro	Phe	Asp	Glu	Lys	Val	Trp	Gln	Lys	Ala	Asn	Pro	Gly	Leu	Gly	Ile
305					310					315					320
Cys	Lys	Arg	Trp	Asp	Asp	Leu	Arg	Arg	Leu	Ala	Lys	Lys	Ala	Lys	Glu
				325					330					335	
Gln	Val	Ser	Ala	Arg	Ile	Asn	Phe	Phe	Thr	Lys	His	Met	Asn	Ile	Trp
			340					345					350		
Val	Thr	Ala	Glu	Ser	Ala	Trp	Met	Asp	Met	Met	Lys	Trp	Glu	Lys	Cys
		355					360					365			
Glu	Phe	Ile	Ala	Pro	Gln	His	Glu	Leu	Lys	Thr	Tyr	Pro	Ser	Trp	Val
		370				375					380				
Gly	Val	Asp	Leu	Ser	Asn	Lys	Ile	Asp	Ile	Cys	Ala	Ala	Ala	Lys	Val
385					390					395					400
Trp	Arg	Ala	Pro	Asp	Gly	His	Val	His	Ala	Asp	Phe	Lys	Phe	Trp	Leu
				405					410					415	
Pro	Glu	Gly	Arg	Leu	Glu	Lys	Cys	Ser	Arg	Gln	Met	Ala	Glu	Leu	Tyr
			420					425					430		
Arg	Lys	Trp	Ala	Gly	Met	Asp	Lys	Leu	Ile	Leu	Thr	Asp	Gly	Asp	Val
		435					440					445			
Ile	Asp	His	Ala	Gln	Ile	Lys	Glu	Glu	Leu	Gln	Leu	Trp	Val	Ala	Gly
	450					455					460				
Glu	Ser	Leu	Lys	Glu	Ile	Gly	Phe	Asp	Pro	Trp	Ser	Ala	Thr	Gln	Phe
465					470					475					480
Ser	Leu	Ala	Leu	Ala	Glu	Glu	Gly	Leu	Pro	Leu	Val	Glu	Val	Pro	Gln
				485					490					495	
Thr	Val	Arg	Asn	Phe	Ser	Glu	Ala	Met	Lys	Glu	Val	Glu	Ala	Leu	Val
			500					505					510		
Tyr	Gly	Gly	Arg	Phe	His	His	Ser	Asp	His	Pro	Val	Met	Asn	Trp	Met
		515					520					525			
Met	Ser	Asn	Val	Thr	Val	Lys	Pro	Asp	Arg	Asn	Glu	Asn	Ile	Phe	Pro

530		535		540
Asn Lys Ser Thr Pro Glu Ala Lys Ile Asp Gly Pro Ala Ala Leu Phe				
545		550		555
Thr Ala Met Ser Arg Val Leu Val Asn Gly Gly Asn Asp Gln Gln Asp				
		565		570
Leu Ser Gly Phe Phe Asn Asn Pro Ile Met Val Gly Phe				
		580		585
				590

<210> 6995

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6995

Asn Arg Pro Leu Arg Ser Thr Phe Leu Met Ser Lys Lys Gln Leu Pro				
1	5		10	15
Val Ala Pro Ala Gly Arg Pro Cys Ala Arg Val Thr Cys Glu Thr Leu				
	20		25	30
Pro Ser Ala Leu Asp Arg Trp Asp Gly Gly Ile Lys Ala Ala Ala Thr				
	35		40	45
Asp Asp Asn Ser Ile Ser Val Phe Asp Val Ile Gly Gln Asp Tyr Trp				
	50		55	60
Gly Glu Gly Val Thr Ala Lys Arg Ile Ala Gly Ala Leu Arg Ala Met				
65	70		75	80
Asn Gly Ala Asp Val Thr Val Asn Ile Asn Ser Pro Gly Gly Asp Met				
	85		90	95
Phe Glu Gly Leu Ala Ile Tyr Asn Leu Leu Arg Glu Tyr Glu Gly Arg				
	100		105	110
Val Thr Val Lys Val Leu Gly Ile Ala Ala Ser Ala Ala Ser Val Ile				
	115		120	125
Ala Met Ala Gly Asp Asp Ile Gln Ile Gly Arg Gly Ala Phe Leu Met				
	130		135	140
Ile His Asn Cys Trp Val Tyr Ala Met Gly Asn Arg His Asp Phe Ala				
145	150		155	160
Glu Leu Ser Gln Ser Leu Glu Pro Phe Asp Asn Ala Met Ala Asp Ile				
	165		170	175
Tyr Ala Ala Arg Ser Gly Leu Asp Met Ala Ala Val Gln Lys Leu Met				
	180		185	190
Asp Ala Glu Ser Tyr Ile Gly Gly Ser Asp Ala Val Ala Lys Gly Leu				
	195		200	205
Ala Asp Ser Leu Leu Ser Ala Asp Ala Val Ser Asp Gly Asp Glu Ser				
	210		215	220
Pro Ala Ala Ala Leu Arg Lys Leu Asp Ala Leu Leu Ala Lys Thr Asn				
225	230		235	240
Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly				
	245		250	255
Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu				
	260		265	270
Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Asn Ala Leu Ala Ala				
	275		280	285
Leu Val Lys				
290				

<210> 6996

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 6996

Gly Pro Phe Met Ser Glu Val Asn Glu Ile Leu Lys Lys Val Thr Ala				
1	5		10	15

Ser Ile Glu Asp Ala Thr Ser Lys Phe Asn Ala Lys Ala Glu Glu Ala
 20 25 30
 Leu Thr Glu Ala Lys Lys Asn Gly Gln Leu Ser Ala Gln Thr Lys Asp
 35 40 45
 Val Val Asp Lys Met Ala Thr Glu Leu Asn Ala Leu Lys Glu Ala Glu
 50 55 60
 Lys Thr Leu Lys Ala Ser Leu Gly Glu Leu Glu Gln His Val Ala Gln
 65 70 75 80
 Met Pro Leu Asn Asn Ala Ala Lys Val Thr Glu Thr Val Gly Gln Val
 85 90 95
 Val Ile Asn Ser Glu Ala Leu Lys Ala Phe Ala Ala Ser Val Glu Gly
 100 105 110
 Asn Lys Arg Val Ser Val Pro Val His Ala Ala Leu Leu Ser Thr Asp
 115 120 125
 Val Ala Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr
 130 135 140
 Ala Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg
 145 150 155 160
 Thr Ser Ser Pro Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn
 165 170 175
 Ala Ala Lys Val Val Ala Glu Gly Thr Ala Lys Pro Tyr Ser Asp Ile
 180 185 190
 Glu Phe Ala Thr Lys Ile Thr Pro Val Thr Thr Ile Ala His Met Phe
 195 200 205
 Lys Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr
 210 215 220
 Val Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Val Glu Glu Gln Glu
 225 230 235 240
 Ile Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro
 245 250 255
 Gln Ala Ser Ala Phe Asp Pro Ala Phe Ser Val Glu Ser Gln Asn Gly
 260 265 270
 Ile Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe
 275 280 285
 Pro Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Lys Ile Glu
 290 295 300
 Leu Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ser
 305 310 315 320
 Leu Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala
 325 330 335
 Ala Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Ala Ala
 340 345 350
 Gln Leu Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn
 355 360 365
 Ala Asp Asp Phe Glu Lys Asn Met Ile Ser Ile Arg Cys Glu Glu Arg
 370 375 380
 Leu Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe
 385 390 395 400
 Ser Thr Gly Ala Gly Ser
 405

<210> 6997

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6997

Met Asn Arg Glu Thr Lys Gln Met Leu Thr Leu Ser Lys Phe Gln Gln
 1 5 10 15
 Ala Thr Gly Thr Ser Ala Glu Leu Ala Gly Lys Trp Phe Pro Val Val
 20 25 30

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<210> 6998
<211> 316
<212> PRT
<213> Enterobacter cloacae
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Ile 1	Met	Gly	Gln	Lys 5	Ile	Ile	Thr	Leu	Ser 10	Gly	Ala	Ala	Thr	Asp 15	Val
Leu	Tyr	Ala	Leu	Phe	Phe	Arg	Gly	Ala 25	Leu	Gln	Ser	Gly	Asp 30	Leu	Pro
Ala	Lys	Ser 35	Gly	Ala	Ala	Glu	Leu 40	Arg	Glu	Leu	Gly	Phe 45	Ala	Glu	Thr
Arg	His 50	Thr	Ala	Thr	Glu	Tyr 55	Gln	Lys	Glu	Asn	Tyr 60	Phe	Thr	Phe	Leu
Thr 65	Ala	Glu	Gly	Gln	Ala	Phe 70	Ala	Ile	Glu	His 75	Leu	Ala	Asn	Thr	Arg
Phe	Gly	Val	Lys	Gln 85	Tyr	Cys	Ser	Ala	Ile 90	Asn	Ile	Gly	Val	Glu 95	Leu
Asp	Thr	Thr	Asp 100	Ala	Gln	Lys	Ala	Ile 105	Asp	Asp	Leu	Asp	Asp 110	Lys	Ile
Arg	Asn	Ser 115	Asp	Ala	Phe	Lys	Val 120	Leu	Lys	Asp	Gly	Trp 125	Ser	Phe	Glu
Lys	Asn 130	Gly	Thr	Leu	Val	Ile 135	Asn	Asn	Gly	Gln	Val	Phe 140	Ile	Thr	Asp
Ala 145	Lys	Ile	Ser	Asp 150	Gly	Val	Leu	Ser	Thr	Asn 155	Tyr	Asn	Val	Lys	Leu 160
Asn	Asp	Ala	Asp	Lys 165	Gly	Lys	Pro	His	Glu 170	Ala	Gly	Met	Thr	Leu 175	Gly
Val	Glu	Glu	Gly 180	Lys	Gln	Gln	Ala	Thr 185	Phe	Lys	Ala	Asp	Arg 190	Phe	Lys
Val	His 195	Glu	Ala	Ala	Gln	Ser	Ala 200	Ser	Asn	Asn	Glu	Glu 205	Thr	Ala	Phe
Asn	Gly 210	Gly	Leu	Ala	Phe	Gly 215	Gly	Phe	Pro	Gly	Ala 220	Ile	Ser	His	Asp
Gly 225	Ala	Asn	Pro	Ala 230	Asp	Gly 235	Asn	Asn	Ala	Thr 235	Ala	Glu	Pro	Ile	Ser 240

Ser	Ile	Ala	Ser	Ala	Thr	Gly	Thr	Ala	Thr	Lys	Ala	Arg	Leu	Thr	Asp
				245					250					255	
Glu	Met	Gln	Glu	Leu	Val	Leu	Lys	Ala	Val	Arg	Glu	Ser	Asp	Leu	Phe
			260					265					270		
Thr	Ser	Leu	Gln	Thr	Ala	Ile	Ala	Ala	Lys	Ala	Ala	Ser	Thr	Ala	Gly
		275					280					285			
Leu	Gln	Gln	Ala	Val	Asn	Asp	Ala	Val	Ser	Asn	Ala	Ile	Arg	Asn	Ala
	290					295					300				
Leu	Lys	Pro	Gly	Gly	Leu	Leu	Tyr	Gly	Lys	Cys					
305					310					315					

<210> 6999

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6999

Glu	Phe	Ser	Ile	Met	Ser	Gly	Pro	Pro	Lys	Thr	Pro	Thr	His	Leu	Arg
1				5					10					15	
Leu	Val	Arg	Gly	Asn	Pro	Ser	Lys	Arg	Pro	Ile	Asn	Glu	Asn	Glu	Pro
			20					25					30		
Lys	Pro	Pro	Ser	Gly	Val	Pro	Pro	Thr	Pro	Lys	His	Phe	Asp	Lys	Gln
		35					40					45			
Gly	Lys	Tyr	Trp	Phe	Lys	Arg	Met	Ala	Asp	Glu	Leu	Asp	Ala	Ile	Gly
	50					55				60					
Val	Met	Ser	Gln	Leu	Asp	Ala	Arg	Ala	Leu	Glu	Leu	Leu	Val	Glu	Ala
65					70				75					80	
Tyr	Thr	Glu	Tyr	Arg	His	His	Cys	Asp	Thr	Leu	Glu	Val	Glu	Gly	Tyr
				85					90					95	
Thr	Tyr	Arg	Thr	Glu	Thr	Gln	Asn	Gly	Asp	Val	Leu	Ile	Lys	Ala	His
			100					105					110		
Pro	Ala	Ala	Ile	Met	Lys	Ala	Asp	Ala	Trp	Lys	Arg	Leu	Arg	Ala	Met
		115					120					125			
Leu	Gly	Glu	Phe	Gly	Met	Thr	Pro	Ala	Ser	Arg	Thr	Lys	Val	Asn	Ala
	130					135					140				
Lys	Gly	Pro	Asp	Ala	Val	Asp	Pro	Leu	Ala	Glu	Phe	Met	Lys	Ala	Arg
145					150					155					160
Asp															

<210> 7000

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7000

Ser	His	His	Gly	Arg	Phe	Leu	Met	Lys	Lys	Asn	Lys	Arg	Pro	Gly	Arg
1				5					10					15	
Val	Lys	Ser	Ala	Leu	Leu	Asn	Trp	Leu	Gly	Val	Pro	Ile	Ser	Leu	Thr
			20					25					30		
Thr	Gly	Thr	Phe	Trp	Glu	Glu	Trp	Phe	Gly	Thr	Ser	Ser	Ser	Gly	Lys
		35					40					45			
Val	Val	Thr	Ala	Asp	Lys	Ala	Ile	Gln	Leu	Ser	Ala	Val	Trp	Ala	Cys
	50					55				60					
Val	Arg	Leu	Leu	Ser	Glu	Ser	Ile	Ser	Thr	Leu	Pro	Leu	Lys	Ile	Tyr
65					70				75					80	
Val	Arg	Gln	Pro	Asp	Gly	Ser	Arg	Lys	Ala	Ala	Thr	Asp	His	Pro	Ala
				85					90					95	
Tyr	Ser	Ile	Leu	Cys	Arg	Arg	Pro	Asn	Ser	Glu	Met	Thr	Pro	Ser	Arg
			100					105					110		
Phe	Met	Leu	Met	Val	Val	Ala	Ser	Ile	Cys	Leu	Arg	Gly	Asn	Ala	Phe

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<210> 7001
<211> 157
<212> PRT
<213> Enterobacter cloacae
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Ile	Ile	Ser	Ile	Phe	Phe	Asn	Ser	Leu	Arg	Val	Cys	Arg	Asp	Leu	Ile
1				5					10					15	
Leu	Met	Leu	Asn	Leu	Ile	Leu	Ser	Gln	Leu	Phe	Asn	Glu	Arg	Gly	Ile
			20					25					30		
Ala	Met	Ser	Trp	Arg	Val	Ile	Ser	Ser	Val	Ile	Cys	Pro	Asn	Thr	Gly
			35				40					45			
Ile	Val	Tyr	Ser	Ser	Ile	Leu	Gly	Leu	Lys	Phe	Leu	Lys	Leu	Ile	Ile
	50					55					60				
Trp	Tyr	Glu	Ser	Asp	Val	Tyr	Leu	Tyr	Pro	Gly	Asp	Arg	Ile	Tyr	Pro
65				70						75				80	
Thr	Lys	Asn	Gly	Val	Phe	Ile	Asn	Gly	Val	Phe	Lys	Pro	Ile	Ser	Ile
				85					90					95	
Tyr	Asn	Ile	Ser	Pro	Tyr	Asn	Glu	Met	Leu	Trp	Ser	Glu	Ile	Lys	Asn

		100						105				110			
Lys	Met	Ala	Cys	Pro	Tyr	Asn	Arg	Asn	Gln	Gln	Glu	Glu	Ile	Cys	Thr
		115					120					125			
Tyr	Ala	Val	His	Cys	Asn	Ala	Arg	Lys	Cys	Pro	His	Gly	Phe	Thr	Thr
	130					135					140				
Asn	Pro	Leu	Ile	Val	Ser	Thr	Ala	Lys	Ser	Arg	His				
145						150				155					

<210> 7002

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 7002

Lys	Thr	Cys	Ser	Glu	Ala	Pro	Val	Ser	Val	Arg	Leu	Met	Lys	Lys	Leu
1				5					10					15	
Phe	Val	Gln	Phe	Tyr	Leu	Leu	Leu	Phe	Val	Cys	Phe	Leu	Val	Met	Thr
		20						25					30		
Met	Leu	Val	Gly	Leu	Val	Tyr	Lys	Phe	Thr	Ala	Glu	Arg	Ala	Gly	Arg
		35					40					45			
Gln	Ser	Leu	Asp	Asp	Leu	Met	Lys	Ser	Ser	Leu	Tyr	Leu	Met	Arg	Ser
	50					55					60				
Glu	Leu	Arg	Glu	Ile	Pro	Pro	His	Asp	Trp	Ala	Arg	Thr	Leu	Lys	Glu
65				70					75						80
Leu	Asp	Leu	Asn	Leu	Ser	Phe	Asp	Leu	Arg	Ile	Glu	Pro	Met	Lys	Asp
			85						90					95	
Phe	Asp	Leu	Ala	Pro	Pro	Ala	Met	Gln	Arg	Leu	Arg	Asp	Gly	Asp	Ile
			100					105					110		
Val	Ala	Leu	Asp	Glu	Lys	Tyr	Thr	Phe	Ile	Gln	Arg	Ile	Pro	Arg	Ser
	115						120					125			
His	Tyr	Val	Leu	Ala	Val	Gly	Pro	Val	Pro	Tyr	Leu	Tyr	Tyr	Leu	His
	130					135					140				
Gln	Met	Arg	Leu	Leu	Asp	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Ala	Ile	Ser
145					150					155					160
Leu	Ala	Phe	Pro	Val	Phe	Ile	Trp	Met	Arg	Pro	His	Trp	Gln	Asp	Met
			165						170					175	
Leu	Lys	Leu	Glu	Ser	Ala	Ala	Gln	Arg	Phe	Gly	Glu	Gly	His	Leu	Thr
			180					185					190		
Glu	Arg	Ile	His	Phe	Asp	Ser	Gly	Ser	Ser	Phe	Asp	Arg	Leu	Gly	Ile
	195						200					205			
Ala	Phe	Asn	Gln	Met	Ala	Asp	Asn	Ile	Asn	Ala	Leu	Ile	Ala	Ser	Lys
	210					215					220				
Lys	Gln	Leu	Ile	Asp	Gly	Ile	Ala	His	Glu	Leu	Arg	Thr	Pro	Leu	Val
225					230						235				240
Arg	Leu	Arg	Tyr	Arg	Leu	Glu	Met	Ser	Glu	Asn	Leu	Thr	Gly	Ala	Glu
			245						250					255	
Ser	Gln	Ala	Leu	Asn	Arg	Asp	Ile	Gly	Gln	Leu	Glu	Ala	Leu	Ile	Glu
			260					265					270		
Glu	Leu	Leu	Thr	Tyr	Ala	Arg	Leu	Asp	Arg	Pro	Gln	Thr	Glu	Leu	His
	275						280					285			
Leu	Ser	Thr	Pro	Asp	Leu	Pro	Val	Trp	Leu	Gln	Thr	His	Ile	Asn	Asp
	290					295					300				
Val	Gln	Ser	Val	Asn	Pro	Gln	Arg	Lys	Leu	Leu	Thr	Ala	Ile	Thr	Pro
305					310						315				320
Gly	Ala	Tyr	Gly	Ala	Leu	Asp	Met	Arg	Leu	Met	Glu	Arg	Val	Leu	Asp
			325						330					335	
Asn	Leu	Met	Asn	Asn	Ala	Met	Arg	Tyr	Ser	Glu	Thr	Thr	Leu	Arg	Ile
			340					345					350		
Gly	Leu	Asp	Leu	Gln	Gly	Ser	Gln	Ala	Ile	Leu	Cys	Val	Glu	Asp	Asp
	355						360				365				
Gly	Pro	Gly	Ile	Glu	Pro	Ala	Glu	Arg	Glu	Lys	Val	Phe	Glu	Pro	Phe

370	375	380
Val Arg Leu Asp Pro Ser	Arg Asp Arg Ala Thr	Gly Gly Cys Gly Leu
385	390	395
Gly Leu Ala Ile Val Arg Ser Ile Ala Gln	Ala Met Gly Gly Ser Val	400
	405	410
Arg Cys Glu Ala Ser Glu Leu Gly Gly Ala Arg Phe Val Phe Ser Trp	415	
	420	425
Pro Ile Tyr His Asn Ile Pro Leu Pro Val Pro Ala	430	
	435	440
		445

<210> 7003

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 7003

Leu Phe Trp Ile Trp Thr Phe His Asn Arg Lys Pro Met Glu Lys Lys	
1 5 10 15	
Leu Gly Leu Ser Ala Leu Thr Ala Leu Val Leu Ser Ser Met Leu Gly	
20 25 30	
Ala Gly Val Phe Ser Leu Pro Gln Asn Met Ala Ala Val Ala Ser Pro	
35 40 45	
Ala Ala Leu Leu Ile Gly Trp Gly Ile Thr Gly Val Gly Ile Leu Leu	
50 55 60	
Leu Ala Phe Ala Met Leu Leu Leu Thr Arg Ile Arg Pro Asp Leu Asp	
65 70 75 80	
Gly Gly Ile Phe Thr Tyr Ala Arg Glu Gly Phe Gly Glu Leu Ile Gly	
85 90 95	
Phe Cys Ser Ala Trp Gly Tyr Trp Leu Cys Ala Val Ile Ala Asn Val	
100 105 110	
Ser Tyr Leu Val Ile Val Phe Ser Ala Leu Ser Phe Phe Thr Asp Thr	
115 120 125	
Pro Glu Leu Arg Leu Phe Gly Asp Gly Asn Thr Trp Gln Ser Ile Val	
130 135 140	
Gly Ala Ser Val Leu Leu Trp Ile Val His Trp Leu Ile Leu Arg Gly	
145 150 155 160	
Val Gln Thr Ala Ala Ser Ile Asn Leu Val Ala Thr Leu Ala Lys Leu	
165 170 175	
Val Pro Leu Gly Leu Phe Val Val Leu Ala Phe Leu Ala Phe Arg Leu	
180 185 190	
Asp Val Phe Thr Leu Asp Phe Ser Gly Ile Ala Leu Gly Val Pro Val	
195 200 205	
Trp Glu Gln Val Lys Asn Thr Met Leu Ile Thr Leu Trp Val Phe Ile	
210 215 220	
Gly Val Glu Gly Ala Val Val Val Ser Ala Arg Ala Arg Asn Lys Arg	
225 230 235 240	
Asp Val Gly Arg Ala Thr Leu Leu Ala Val Leu Ala Ala Leu Gly Val	
245 250 255	
Tyr Leu Leu Val Thr Leu Leu Ser Leu Gly Val Val Ala Arg Pro Glu	
260 265 270	
Leu Ala Glu Met Arg Asn Pro Ser Met Ala Gly Leu Met Val Lys Met	
275 280 285	
Leu Gly Pro Trp Gly Asp Val Ile Ile Ala Ala Gly Leu Ile Val Ser	
290 295 300	
Val Cys Gly Ala Tyr Leu Ser Trp Thr Ile Met Ala Ala Glu Val Pro	
305 310 315 320	
Phe Leu Ala Ala Thr His Lys Ala Phe Pro Arg Leu Phe Ala Arg Gln	
325 330 335	
Asn Lys Asn Ser Ala Pro Ser Ala Ser Leu Trp Leu Thr Asn Ile Ser	
340 345 350	
Val Gln Val Cys Leu Val Leu Ile Trp Leu Thr Gly Ser Asp Tyr Asn	


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Asp Cys Ala Val Tyr Val Asp Val Phe Cys Asp Asp Arg Arg Cys Met
1      5      10      15
Asn Lys Ile Val Tyr Val Glu Asp Glu Pro Glu Val Gly Gln Leu Ile
20      25      30
Ala Ala Tyr Leu Gly Lys His Asp Met Glu Val Val Val Glu Pro Arg
35      40      45
Gly Asp Arg Ala Glu Asp Val Val Thr Arg Glu Asn Pro Asp Leu Val
50      55      60
Leu Leu Asp Ile Met Leu Pro Gly Lys Asp Gly Met Thr Leu Cys Arg
65      70      75
Asp Leu Arg Thr Lys Trp Asp Gly Pro Ile Val Leu Leu Thr Ser Leu
85      90      95
Asp Ser Asp Met Asn His Ile Leu Ser Leu Glu Met Gly Ala Asn Asp
100     105     110
Tyr Ile Leu Lys Thr Thr Pro Pro Ala Val Leu Leu Ala Arg Leu Arg
115     120     125
Leu His Leu Arg Gln Arg Ala Ser Gly Ala Glu Arg Glu Ala Ser Ala
130     135     140
Pro Ser Leu Thr Pro His Lys Ala Met Arg Phe Gly Thr Leu Ser Ile
145     150     155
Asp Pro Val Asn Arg Gln Val Met Leu Ser Gly Glu Leu Ile Ala Leu
165     170     175
Ser Thr Ala Asp Phe Asp Leu Leu Trp Glu Leu Ala Thr His Ala Gly
180     185     190
Gln Ile Met Asp Arg Asp Ala Leu Leu Lys Asn Leu Arg Gly Val Ser
195     200     205
Tyr Asp Gly Met Asp Arg Ser Val Asp Val Ala Ile Ser Arg Leu Arg
210     215     220
Lys Lys Leu Leu Asp Asn Ala Thr Glu Pro Tyr Arg Ile Lys Thr Val
225     230     235
Arg Asn Lys Gly Tyr Leu Phe Ala Pro His Ala Trp Glu Thr
245     250     255

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<210> 7006

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7006

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Gln Gln His Gln Tyr Met Val Cys Ala Arg Arg Arg Ile Ile Phe Met
1      5      10      15
Lys Leu Lys Asn Thr Leu Leu Ala Ser Ala Leu Leu Ser Ala Thr Ala
20      25      30
Leu Ser Ala Asn Ala Ala Thr Glu Leu Thr Pro Glu Gln Ala Ala Ala
35      40      45
Leu Lys Pro Phe Asp His Thr Val Ile Val Gly Arg Tyr Asn Ser Ile
50      55      60
Gly Asp Ala Val Ala Ala Ser Lys Ala Ala Asp Lys Asn Gly Ala
65      70      75
Ala Ser Phe Tyr Val Val Asp Gln Ser Asp Gln Gly Asn Ser Gly Asn
85      90      95
Gln Arg Val Thr Ile Ala Leu Tyr Lys Asp Asn Ala Pro Lys Ala Asp
100     105     110
Glu Gln Lys Asn Arg Val Ile Asn Gly Ile Val Glu Leu Pro Lys Asp
115     120     125
Gln Ala Val Gln Leu Glu Pro Tyr Asp Thr Val Thr Val Gln Gly Phe
130     135     140
Tyr Arg Ser Gln Pro Glu Val Asn Asp Ala Ile Thr Lys Ala Ala Arg
145     150     155
Glu Lys Gly Ala Tyr Ala Phe Tyr Ile Val Arg Gln Val Asp Ala Asn
165     170     175

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Gln Gly Gly Asn Gln Arg Ile Thr Ala Phe Ile Tyr Lys Gln Asp Ala
 180 185 190
 Lys Lys Arg Val Val Gln Ser Pro Asp Ala Ile Pro Ala Asp Ser Asp
 195 200 205
 Ala Gly Arg Ala Ala Leu Ala Lys Gly Gly Glu Glu Ala Lys Lys Val
 210 215 220
 Glu Ile Pro Gly Val Ala Thr Ser Ala Ala Pro Ser Ala Glu Val Gly
 225 230 235 240
 Arg Phe Phe Glu Thr Gln Ser Thr Lys Gly Gly Arg Tyr Thr Val Thr
 245 250 255
 Leu Pro Asp Gly Thr Lys Ile Glu Glu Leu Asn Lys Ala Thr Ala Ala
 260 265 270
 Gln Met Val Pro Phe Asp Ser Ile Lys Phe Thr Gly Asn Tyr Gly Asn
 275 280 285
 Met Thr Glu Ile Ser Tyr Gln Val Ala Lys Arg Ala Ala Lys Lys Gly
 290 295 300
 Ala Lys Tyr Tyr His Ile Thr Arg Gln Trp Gln Glu Arg Gly Asn Asn
 305 310 315 320
 Leu Thr Ile Ser Ala Asp Leu Tyr Lys
 325 330

<210> 7007

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7007

Leu Arg Ala Ala Met Thr Thr Tyr Asp Leu Ile Glu Arg Leu Asn Thr
 1 5 10 15
 Thr Phe Arg Glu Ile Glu Gln Ala Leu Thr Leu Thr Gly Gln Leu
 20 25 30
 Gln Asp Cys Arg Leu Leu Ala Ala Arg Val Phe Ser Leu Pro Glu Val
 35 40 45
 Ala Lys Gly Ala Glu His Asp Pro Leu Asn Thr Ile Glu Val Thr Gln
 50 55 60
 His Val Gly Lys Ala Ala Leu Glu Met Thr Leu Gln His Tyr Arg Arg
 65 70 75 80
 Leu Phe Ile Gln Gln Ser Glu Asn Arg Ser Ser Lys Ala Ala Val
 85 90 95
 Arg Leu Pro Gly Val Ile Cys Leu Gln Thr Asp Ala Ala Thr Arg Glu
 100 105 110
 Gly Ile Glu Ala Gln Ile Thr His Ile Asn Thr Leu Lys Ala Ala Phe
 115 120 125
 Glu Lys Ile Val Thr Val Glu Ser Gly Leu Ala Pro Ala Ala Arg Phe
 130 135 140
 Glu Trp Val His Arg Gln Leu Pro Gly Leu Ile Thr Leu Asn Ala Tyr
 145 150 155 160
 Arg Thr Leu Thr Val Leu Arg His Pro Ala Thr Leu Arg Phe Gly Trp
 165 170 175
 Ala Asn Lys His Ile Ile Lys Asn Phe Ala Arg Asp Glu Ile Leu Ala
 180 185 190
 Gln Leu Glu Lys Ser Leu Lys Ser Pro Arg Thr Val Ala Pro Trp Ser
 195 200 205
 Arg Glu Gln Trp Ile Glu Arg Leu Glu Gln Glu Tyr His Ser Ile Ala
 210 215 220
 Ser Leu Pro Ala Asp Thr Arg Leu Lys Ile Lys Arg Pro Val Lys Val
 225 230 235 240
 Gln Pro Ile Ala Arg Val Trp Tyr Ala Gly Gln Gln Lys Gln Val Gln
 245 250 255
 Tyr Ala Cys Pro Thr Pro Leu Ile Ala Leu Tyr Asp Ala Asp Gln Gly
 260 265 270

Ala Val Val Pro Asp Ile Gly Glu Leu Leu Asn Tyr Asp Ala Glu Asn
 275 280 285
 Val Gln His Arg Tyr Lys Pro Gln Ala Gln Pro Leu Gln Leu Ile Ile
 290 295 300
 Pro Arg Leu His Leu Tyr Val Ala Gln
 305 310

<210> 7008

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 7008

Tyr Ala Glu Leu Ile Pro His Met Asn Gln Gly Leu Ile Met Gln Lys
 1 5 10 15
 Leu Ile Asn Ser Val Gln Asn Tyr Ala Trp Gly Ser Lys Thr Ala Leu
 20 25 30
 Thr Asp Leu Tyr Gly Ile Ala Asn Pro Asp Asn Leu Pro Met Ala Glu
 35 40 45
 Leu Trp Met Gly Ala His Pro Lys Ser Ser Ser Lys Ile Glu Asp Ala
 50 55 60
 Ser Gly Gln Val Arg Ser Leu Arg Asp Val Ile Asp Ala Asp Lys Ala
 65 70 75 80
 Ala Leu Leu Gly Asp Lys Val Ala Asn Arg Phe Gly Glu Leu Pro Phe
 85 90 95
 Leu Phe Lys Val Leu Cys Ala Asp Gln Pro Leu Ser Ile Gln Val His
 100 105 110
 Pro Asn Lys Lys Ala Ser Glu Leu Gly Phe Ala Lys Glu Asn Ala Ala
 115 120 125
 Gly Ile Pro Leu Asp Ala Val Glu Arg Asn Tyr Lys Asp Pro Asn His
 130 135 140
 Lys Pro Glu Leu Val Phe Ala Leu Thr Pro Phe Leu Ala Met Asn Ala
 145 150 155 160
 Phe Arg Glu Phe Ser Glu Ile Ile Ser Leu Leu Gln Pro Val Ala Gly
 165 170 175
 Ala His Asn Ala Ile Ala His Phe Leu Glu Asn Pro Asn Ala Glu Ala
 180 185 190
 Leu Ser Glu Leu Phe Ala Ser Leu Leu Asn Met Gln Gly Glu Glu Lys
 195 200 205
 Ser His Ala Leu Ala Val Leu Lys Ala Ala Leu Asn Ser Gln Gln Gly
 210 215 220
 Glu Pro Trp Asp Thr Ile Arg Val Ile Ser Ala Phe Tyr Pro Asp Asp
 225 230 235 240
 Ser Gly Leu Phe Ser Pro Leu Leu Leu Asn Val Val Lys Leu Asn Pro
 245 250 255
 Gly Glu Ala Met Phe Leu Phe Ala Glu Thr Pro His Ala Tyr Leu Asn
 260 265 270
 Gly Val Ala Leu Glu Val Met Ala Asn Ser Asp Asn Val Leu Arg Ala
 275 280 285
 Gly Leu Thr Pro Lys Tyr Ile Asp Ile Pro Glu Leu Val Ala Asn Val
 290 295 300
 Lys Phe Val Ala Lys Pro Ala Ala Glu Leu Leu Thr Gln Pro Val Lys
 305 310 315 320
 Asn Gly Ala Glu Leu Asp Phe Pro Ile Pro Val Asp Asp Phe Ala Phe
 325 330 335
 Ser Leu His Asp Leu Ser Ala Asp Glu Thr Ala Ile Ala Gln Glu Ser
 340 345 350
 Ala Ala Ile Leu Phe Cys Val Glu Gly Glu Ala Thr Leu His Lys Asp
 355 360 365
 Ser Asp Arg Leu Val Leu Lys Pro Gly Glu Ser Ala Phe Val Ala Ala
 370 375 380

Asn Glu Ser Pro Val Arg Val Ser Gly Thr Gly Arg Leu Ala Arg Val
 385 390 395 400
 Phe Asn Lys Leu
 405

<210> 7009

<211> 536

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (527)

<400> 7009

Pro Pro Gly Phe Ile Leu Gly Ile Ile Ala Met Lys Lys Ser Val Val
 1 5 10 15
 Ala Val Gly Val Ile Val Ala Leu Gly Val Ile Trp Thr Gly Ala Ser
 20 25 30
 Trp Tyr Thr Gly Lys Gln Leu Glu Ser Arg Leu Ala Glu Met Met Thr
 35 40 45
 Gln Ala Asn Ser Glu Ile Lys Arg Ser Ala Pro Glu Ala Gly Leu Glu
 50 55 60
 Leu Ser Tyr Gln Asn Tyr Gln Arg Gly Val Phe Thr Ser His Met Gln
 65 70 75 80
 Val Val Val Lys Pro Val Ala Gly Asn Gln Asn Ala Trp Leu Lys Pro
 85 90 95
 Gly Gln Ser Val Val Leu Asp Glu Val Val Ser His Gly Pro Phe Pro
 100 105 110
 Leu Ala Gln Leu Lys Lys Phe Asn Leu Ile Pro Ser Met Ala Ser Ala
 115 120 125
 Arg Thr Val Leu Val Asn Asn Glu Val Thr Lys Pro Ile Phe Asp Met
 130 135 140
 Ala Lys Asn Glu Ser Pro Phe Glu Ile Asn Thr Arg Ile Ser Tyr Ala
 145 150 155 160
 Gly Asp Thr His Ser Asp Ile Asp Leu Lys Ala Leu Asn Tyr Glu Gln
 165 170 175
 Gly Thr Asp Lys Val Ala Phe Ser Gly Glu Asn Phe Gln Leu Asp Ala
 180 185 190
 Asp Arg Asp Gly Lys Asn Val Ser Leu Thr Gly Asp Ala Ala Ser Gly
 195 200 205
 Leu Val Asn Ser Val Asn Glu Tyr Asn Gln Lys Val Gln Leu Thr Phe
 210 215 220
 Asn Asn Leu Lys Ala Ser Gly Asn Ser Arg Met Thr Asp Phe Asp Glu
 225 230 235 240
 Arg Ile Gly Asp Gln Lys Leu Ser Leu Asp Lys Ile Ala Ile Ala Ile
 245 250 255
 Glu Gly Lys Glu Met Ala Val Leu Glu Gly Met Asp Leu Asp Gly Lys
 260 265 270
 Ser Asp Val Ser Lys Asp Gly Lys Ser Ile Asn Thr Gln Leu Asp Tyr
 275 280 285
 Ser Leu Lys Ser Leu Lys Val Gln Asn Gln Asp Leu Gly Thr Gly Lys
 290 295 300
 Leu Ser Leu Lys Ile Gly Asn Ile Asp Gly Gln Ala Trp His Glu Phe
 305 310 315 320
 Ser Gln Lys Tyr Ser Lys Glu Ser Gln Ala Leu Leu Thr Asp Ala Ala
 325 330 335
 Leu Gln Gln Asn Pro Gln Ala Tyr Gln Gln Gln Ala Met Thr Val Leu
 340 345 350
 Phe Asn Asn Leu Pro Ile Leu Leu Lys Gly Glu Pro Val Ile Thr Val
 355 360 365

Ala Pro Leu Ser Trp Lys Asn Gly Lys Gly Glu Thr Asn Phe Asn Leu
 370 375 380
 Ser Leu Phe Leu Lys Asp Pro Ala Ala Thr Thr Gly Glu Pro Gln Thr
 385 390 395 400
 Leu Ala Gln Glu Val Asp Arg Ser Val Lys Ser Leu Asp Ser Lys Leu
 405 410 415
 Thr Ile Pro Met Asp Met Ala Thr Glu Phe Met Thr His Ile Ala Lys
 420 425 430
 Leu Glu Gly Tyr Gly Glu Glu Asp Ala Gly Lys Leu Ala Asn Gln Gln
 435 440 445
 Val Lys Gly Leu Ala Ala Met Gly His Met Phe Arg Ile Thr Lys Val
 450 455 460
 Glu Asp Asn Thr Ile Ser Thr Ser Leu Gln Tyr Ala Asn Gly Gln Val
 465 470 475 480
 Thr Leu Asn Gly Asp Lys Met Pro Leu Glu Thr Val Cys Gln Tyr Val
 485 490 495
 Trp Tyr Gly Arg Thr Leu Gly Met Pro Glu Pro Ala Glu Thr Ala Ala
 500 505 510
 Pro Pro Ala Val Pro Gln Gln Tyr Thr Lys Asn Pro Ser His Xaa Gly
 515 520 525
 Phe Phe Ile Ala Gly Trp Arg
 530 535

<210> 7010

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 7010

Gly Lys Arg Met Gly Leu Val Ile Lys Ala Thr Leu Gly Ala Leu Val
 1 5 10 15
 Val Leu Leu Ile Gly Val Leu Ala Lys Thr Lys Asn Tyr Tyr Ile Ala
 20 25 30
 Gly Leu Ile Pro Leu Phe Pro Thr Phe Ala Leu Ile Ala His Tyr Ile
 35 40 45
 Val Ala Ser Glu Arg Gly Ile Glu Ala Leu Arg Ala Thr Ile Val Phe
 50 55 60
 Gly Met Trp Ser Ile Ile Pro Tyr Phe Ile Tyr Leu Leu Ser Leu Trp
 65 70 75 80
 Tyr Phe Thr Gly Phe Leu Arg Leu Pro Leu Ala Leu Gly Gly Ala Val
 85 90 95
 Val Cys Trp Ser Leu Ser Ala Trp Val Leu Ile Phe Phe Trp Ser Arg
 100 105 110
 Phe His
 115

<210> 7011

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7011

Val Met Thr Met His Arg Arg Glu Lys Asp Ser Met Gly Ala Ile Asp
 1 5 10 15
 Val Pro Ala Asp Lys Leu Trp Gly Ala Gln Thr Gln Arg Ser Leu Glu
 20 25 30
 His Phe Arg Ile Ser Thr Glu Lys Met Pro Val Ser Leu Ile Gln Ala
 35 40 45
 Leu Ala Leu Thr Lys Arg Ala Ala Ala Lys Val Asn Gln Asp Leu Gly
 50 55 60
 Leu Leu Asp Ala Asp Lys Ala Thr Ala Ile Ile Asn Ala Ala Asp Glu

65					70					75				80
Val	Leu	Ala	Gly	Lys	His	Pro	Asp	Glu	Phe	Pro	Leu	Ala	Ile	Trp
				85					90					95
Thr	Gly	Ser	Gly	Thr	Gln	Ser	Asn	Met	Asn	Met	Asn	Glu	Val	Leu
			100					105					110	Ala
Asn	Arg	Ala	Ser	Glu	Leu	Leu	Gly	Gly	Leu	Arg	Gly	Met	Glu	Arg
		115					120					125		Lys
Ile	His	Pro	Asn	Asp	Asp	Val	Asn	Lys	Ser	Gln	Ser	Ser	Asn	Asp
	130					135					140			Val
Phe	Pro	Thr	Ala	Met	His	Val	Ala	Ala	Val	Ile	Ala	Ile	Arg	Glu
	145				150					155				Gln
Leu	Ile	Pro	Gln	Leu	Asn	Val	Leu	Lys	Ser	Thr	Leu	Asn	Glu	Lys
				165					170					Ala
Gln	Ala	Phe	Arg	Asp	Ile	Val	Lys	Ile	Gly	Arg	Thr	His	Leu	Gln
			180					185					190	Asp
Ala	Thr	Pro	Leu	Thr	Leu	Gly	Gln	Glu	Ile	Ser	Gly	Trp	Val	Ala
		195					200					205		Met
Leu	Glu	His	Asn	Leu	Lys	His	Ile	Asp	Asn	Ser	Leu	Pro	His	Leu
	210					215					220			Ala
Glu	Leu	Ala	Leu	Gly	Gly	Thr	Ala	Val	Gly	Thr	Gly	Leu	Asn	Thr
	225				230					235				His
Pro	Glu	Tyr	Ala	Val	Arg	Val	Ala	Glu	Glu	Leu	Ala	Lys	Ile	Thr
			245					250						Gly
Gln	Pro	Phe	Val	Thr	Ala	Pro	Asn	Lys	Phe	Glu	Ala	Leu	Ala	Thr
			260					265					270	Cys
Asp	Ala	Leu	Val	His	Thr	His	Gly	Ala	Leu	Lys	Gly	Leu	Ala	Ala
	275						280					285		Ser
Leu	Met	Lys	Ile	Ala	Asn	Asp	Val	Arg	Trp	Leu	Ala	Ser	Gly	Pro
	290					295				300				Arg
Cys	Gly	Ile	Gly	Glu	Ile	Ser	Ile	Pro	Glu	Asn	Glu	Pro	Gly	Ser
	305				310					315				Ser
Ile	Met	Pro	Gly	Lys	Val	Asn	Pro	Thr	Gln	Cys	Glu	Ala	Met	Thr
				325					330					Met
Leu	Cys	Cys	Gln	Val	Met	Gly	Asn	Asp	Val	Ala	Val	Asn	Met	Gly
			340					345					350	Gly
Ala	Ser	Gly	Asn	Phe	Glu	Leu	Asn	Val	Tyr	Arg	Pro	Met	Val	Ile
		355					360					365		His
Asn	Val	Leu	Gln	Ser	Ile	Arg	Leu	Leu	Ala	Asp	Gly	Met	Glu	Ser
	370					375					380			Phe
Asn	Glu	His	Cys	Ala	Val	Gly	Ile	Glu	Pro	Asn	Arg	Glu	Arg	Ile
	385				390					395				Ser
Gln	Leu	Leu	Asn	Glu	Ser	Leu	Met	Leu	Val	Thr	Ala	Leu	Asn	Thr
			405						410					His
Ile	Gly	Tyr	Asp	Lys	Ala	Ala	Glu	Ile	Ala	Lys	Lys	Ala	His	Lys
			420				425						430	Glu
Gly	Leu	Thr	Leu	Lys	Ala	Ser	Ala	Leu	Ala	Leu	Gly	Tyr	Leu	Thr
	435					440					445			Asp
Ala	Glu	Phe	Asp	Ala	Trp	Val	Arg	Pro	Glu	Ala	Met	Val	Gly	Ser
	450					455					460			Leu
Arg														
465														

<210> 7012

<211> 572

<212> PRT

<213> Enterobacter cloacae

<400> 7012

Leu	Ala	Phe	Lys	Pro	Gly	Ser	Gly	Thr	Ser	Ala	Leu	Asn	Lys	Gln	Thr
1			5						10					15	
Glu	Ala	Val	Ser	Glu	Arg	Thr	Met	Ser	Asn	Lys	Pro	Phe	His	Tyr	Gln

20							25					30			
Asp	Pro	Phe	Pro	Leu	Ser	Gln	Asp	Gln	Thr	Glu	Tyr	Tyr	Leu	Leu	Thr
		35					40					45			
Arg	Asp	Tyr	Val	Thr	Val	Ser	Glu	Phe	Glu	Gly	Gln	Glu	Ile	Leu	Lys
	50					55					60				
Val	Asp	Pro	Gln	Gly	Leu	Thr	Leu	Leu	Ala	Gln	Gln	Ala	Phe	His	Asp
65				70					75						80
Ala	Ser	Phe	Met	Leu	Arg	Pro	Ala	His	Gln	Gln	Gln	Val	Ala	Asp	Ile
				85					90					95	
Leu	Ser	Asp	Pro	Glu	Ala	Ser	Glu	Asn	Asp	Lys	Tyr	Val	Ala	Leu	Gln
			100				105						110		
Phe	Leu	Arg	Asn	Ser	Asp	Ile	Ala	Ala	Lys	Gly	Ile	Leu	Pro	Thr	Cys
		115					120					125			
Gln	Asp	Thr	Gly	Thr	Ala	Ile	Ile	Thr	Gly	Lys	Lys	Gly	Gln	Arg	Val
	130					135					140				
Trp	Thr	Gly	Gly	Gly	Asp	Glu	Ala	Thr	Leu	Ala	Arg	Gly	Val	Tyr	Asn
145					150					155					160
Thr	Tyr	Thr	Glu	Asp	Asn	Leu	Arg	Tyr	Ser	Gln	Asn	Ala	Ala	Leu	Asp
				165					170					175	
Met	Tyr	Lys	Glu	Val	Asn	Thr	Gly	Thr	Asn	Leu	Pro	Ala	Gln	Ile	Asp
			180					185					190		
Leu	Tyr	Ser	Val	Asp	Gly	Asp	Glu	Tyr	Lys	Phe	Leu	Cys	Ile	Ala	Lys
		195					200					205			
Gly	Gly	Gly	Ser	Ala	Asn	Lys	Thr	Tyr	Leu	Tyr	Gln	Glu	Thr	Lys	Ala
	210					215					220				
Leu	Leu	Thr	Pro	Gly	Lys	Leu	Lys	Asn	Tyr	Leu	Val	Glu	Lys	Met	Arg
225					230					235					240
Thr	Leu	Gly	Thr	Ala	Ala	Cys	Pro	Pro	Tyr	His	Ile	Ala	Phe	Val	Ile
				245					250					255	
Gly	Gly	Thr	Ser	Ala	Glu	Ser	Thr	Leu	Lys	Thr	Val	Lys	Leu	Ala	Ser
			260					265					270		
Thr	Lys	Tyr	Tyr	Asp	Gly	Leu	Pro	Thr	Glu	Gly	Asn	Glu	His	Gly	Gln
		275					280					285			
Ala	Phe	Arg	Asp	Val	Gln	Leu	Glu	Gln	Glu	Leu	Leu	Ala	Glu	Ala	Gln
		290				295					300				
Asn	Leu	Gly	Leu	Gly	Ala	Gln	Phe	Gly	Gly	Lys	Tyr	Phe	Ala	His	Asp
305					310					315					320
Ile	Arg	Val	Ile	Arg	Leu	Pro	Arg	His	Gly	Ala	Ser	Cys	Pro	Val	Gly
				325					330					335	
Met	Gly	Val	Ser	Cys	Ser	Ala	Asp	Arg	Asn	Ile	Lys	Ala	Lys	Ile	Asn
			340					345					350		
Arg	Asp	Gly	Ile	Trp	Ile	Glu	Lys	Leu	Glu	Asn	Asn	Pro	Gly	Lys	Tyr
		355					360					365			
Ile	Pro	Glu	Glu	Leu	Arg	Lys	Ala	Gly	Glu	Gly	Glu	Ala	Val	Arg	Val
		370				375					380				

Ala	Val	Leu	Ala	Gln	Gly	Ser	Ile	Lys	Ser	Leu	Glu	Cys	Val	Glu	Tyr
		515					520					525			
Pro	Glu	Leu	Gly	Met	Glu	Ala	Ile	Trp	Lys	Ile	Glu	Val	Glu	Asp	Phe
		530					535				540				
Pro	Ala	Phe	Ile	Leu	Val	Asp	Asp	Lys	Gly	Asn	Asp	Phe	Phe	Lys	Gln
545					550					555					560
Ile	Gln	Ser	Ser	Gln	Cys	Ser	Ala	Cys	Val	Lys					
				565					570						

<210> 7013

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 7013

Glu	Phe	Lys	Met	Val	Lys	Val	Tyr	Ala	Pro	Ala	Ser	Ser	Ala	Asn	Met
1				5					10					15	
Ser	Val	Gly	Phe	Asp	Val	Leu	Gly	Ala	Ala	Val	Thr	Pro	Val	Asp	Gly
		20						25					30		
Ser	Leu	Leu	Gly	Asp	Thr	Val	Thr	Val	Glu	Ala	Ala	Glu	Arg	Phe	Ser
		35					40					45			
Leu	Asn	Asn	Ile	Gly	Arg	Phe	Ala	Ser	Lys	Leu	Pro	Ser	Glu	Pro	Arg
		50				55					60				
Glu	Asn	Ile	Val	Tyr	Gln	Cys	Trp	Glu	Arg	Phe	Cys	Gln	Glu	Ile	Gly
65					70					75					80
Lys	Asn	Val	Pro	Val	Ala	Met	Thr	Leu	Glu	Lys	Ser	Met	Pro	Ile	Gly
				85					90					95	
Ser	Gly	Leu	Gly	Ser	Ser	Ala	Cys	Ser	Val	Val	Ala	Ala	Leu	Val	Ala
		100						105					110		
Met	Asn	Glu	His	Cys	Gly	Lys	Pro	Leu	Asn	Asn	Ser	Arg	Leu	Leu	Ala
		115					120					125			
Leu	Met	Gly	Glu	Leu	Glu	Gly	Arg	Ile	Ser	Gly	Ser	Ile	His	Tyr	Asp
		130				135					140				
Asn	Val	Ala	Pro	Cys	Phe	Leu	Gly	Gly	Met	Gln	Leu	Met	Ile	Glu	Glu
145					150					155					160
Asn	Gly	Ile	Ile	Ser	Gln	Gln	Val	Pro	Gly	Phe	Asp	Glu	Trp	Leu	Trp
				165					170					175	
Val	Leu	Ala	Tyr	Pro	Gly	Ile	Lys	Val	Ser	Thr	Ala	Glu	Ala	Arg	Ala
		180						185						190	
Ile	Leu	Pro	Ala	Gln	Tyr	Arg	Arg	Gln	Asp	Cys	Ile	Ala	His	Gly	Arg
		195					200					205			
His	Leu	Ala	Gly	Phe	Ile	His	Ala	Cys	Tyr	Thr	Arg	Gln	Pro	Gln	Leu
		210				215					220				
Ala	Ala	Lys	Leu	Met	Lys	Asp	Ile	Ile	Ala	Glu	Pro	Tyr	Arg	Thr	Lys
225					230					235					240
Leu	Leu	Pro	Gly	Phe	Asn	Glu	Ala	Arg	Gln	Ala	Ser	Met	Asp	Ile	Gly
				245					250					255	
Ala	Gln	Ala	Cys	Gly	Ile	Ser	Gly	Ser	Gly	Pro	Thr	Leu	Phe	Ala	Leu
			260					265						270	
Cys	Asp	Lys	Pro	Asp	Thr	Ala	Gln	Arg	Val	Ala	Asp	Trp	Leu	Ser	Lys
		275					280					285			
His	Tyr	Leu	Gln	Asn	Gln	Glu	Gly	Phe	Val	His	Ile	Cys	Arg	Leu	Asp
		290				295					300				
Thr	Ala	Gly	Ala	Arg	Val	Leu	Gly								
305						310									

<210> 7014

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 7014

Arg Met Lys Leu Tyr Asn Leu Lys Asp His Asn Glu Gln Val Ser Phe
 1 5 10 15
 Ala Gln Ala Val Thr Gln Gly Leu Gly Lys Asn Gln Gly Leu Phe Phe
 20 25 30
 Pro His Asp Leu Pro Glu Phe Gln Leu Thr Glu Ile Asp Glu Leu Leu
 35 40 45
 Lys Gln Asp Phe Val Thr Arg Ser Thr Lys Ile Leu Ser Ala Phe Ile
 50 55 60
 Gly Asp Glu Ile Pro Gln Glu Leu Leu Glu Glu Arg Val Arg Ala Ala
 65 70 75 80
 Phe Ala Phe Pro Ala Pro Val Lys Gln Val Glu Pro Asp Val Gly Cys
 85 90 95
 Leu Glu Leu Phe His Gly Pro Thr Leu Ala Phe Lys Asp Phe Gly Gly
 100 105 110
 Arg Phe Met Ala Gln Met Leu Thr His Ile Ser Gly Asp Lys Pro Val
 115 120 125
 Thr Ile Leu Thr Ala Thr Ser Gly Asp Thr Gly Ala Ala Val Ala His
 130 135 140
 Ala Phe Tyr Gly Leu Lys Asn Val Arg Val Val Ile Leu Tyr Pro Lys
 145 150 155 160
 Gly Lys Ile Ser Pro Leu Gln Glu Lys Leu Phe Cys Thr Leu Gly Gly
 165 170 175
 Asn Ile Glu Thr Val Ala Ile Asp Gly Asp Phe Asp Ala Cys Gln Ala
 180 185 190
 Leu Val Lys Gln Ala Phe Asp Asp Glu Glu Leu Lys Ala Ala Leu Gly
 195 200 205
 Leu Asn Ser Ala Asn Ser Ile Asn Ile Ser Arg Leu Leu Ala Gln Ile
 210 215 220
 Cys Tyr Tyr Phe Glu Ala Val Ala Gln Leu Pro Gln Asp Ala Arg Asn
 225 230 235 240
 Gln Leu Val Val Ser Val Pro Ser Gly Asn Phe Gly Asp Leu Thr Ala
 245 250 255
 Gly Leu Leu Ala Lys Ser Leu Gly Leu Pro Val Lys Arg Phe Ile Ala
 260 265 270
 Ala Thr Asn Ala Asn Asp Thr Val Pro Arg Phe Leu Lys Asp Gly Lys
 275 280 285
 Trp Ala Pro Asn Ala Thr Gln Ala Thr Leu Ser Asn Ala Met Asp Val
 290 295 300
 Ser Gln Pro Asn Asn Trp Pro Arg Val Glu Glu Leu Phe Arg Arg Lys
 305 310 315 320
 Val Trp Arg Leu Gly Asp Leu Gly Tyr Ala Ala Val Thr Asp Glu Thr
 325 330 335
 Thr Lys Ala Thr Met Arg Glu Leu Lys Ala Val Gly Tyr Thr Ser Glu
 340 345 350
 Pro His Ala Ala Ile Ala Tyr Arg Ala Leu Arg Asp Gln Leu Gln Pro
 355 360 365
 Gly Glu Tyr Gly Leu Phe Leu Gly Thr Ala His Pro Ala Lys Phe Lys
 370 375 380
 Glu Ser Val Glu Ala Ile Leu Gly Glu Thr Leu Pro Leu Pro Lys Glu
 385 390 395 400
 Leu Ala Glu Arg Ala Asp Leu Pro Leu Leu Ser His Glu Leu Pro Ala
 405 410 415
 Asp Phe Ala Ala Leu Arg Lys Leu Met Met Thr Arg Ala
 420 425 430

<210> 7015

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7015

Lys Arg Asn Thr Ile Met Thr Asp Lys Leu Thr Ser Leu Arg Gln Phe
 1 5 10 15
 Thr Thr Val Val Ala Asp Thr Gly Asp Ile Ala Ala Met Lys Leu Tyr
 20 25 30
 Gln Pro Gln Asp Ala Thr Thr Asn Pro Ser Leu Ile Leu Asn Ala Ala
 35 40 45
 Gln Leu Pro Glu Tyr Arg Lys Leu Ile Asp Glu Ala Val Thr Trp Ala
 50 55 60
 Lys Ala Gln Ser Asn Asp Arg Ala Gln Gln Val Val Asp Ala Thr Asp
 65 70 75 80
 Lys Leu Ala Val Asn Ile Gly Leu Glu Ile Leu Lys Leu Val Pro Gly
 85 90 95
 Arg Ile Ser Thr Glu Val Asp Ala Arg Leu Ser Tyr Asp Thr Glu Ala
 100 105 110
 Ser Ile Ala Lys Ala Lys Arg Leu Ile Lys Leu Tyr Asn Asp Ala Gly
 115 120 125
 Ile Ser Asn Asp Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp Gln Gly
 130 135 140
 Ile Arg Ala Ala Glu Gln Leu Glu Lys Glu Gly Ile Asn Cys Asn Leu
 145 150 155 160
 Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu Ala Gly
 165 170 175
 Val Tyr Leu Ile Ser Pro Phe Val Gly Arg Ile Leu Asp Trp Tyr Lys
 180 185 190
 Ala Asn Thr Asp Lys Lys Glu Tyr Ala Ala Ser Glu Asp Pro Gly Val
 195 200 205
 Ile Ser Val Thr Glu Ile Tyr Glu Tyr Tyr Lys Gln His Gly Tyr Glu
 210 215 220
 Thr Val Val Met Gly Ala Ser Phe Arg Asn Val Gly Glu Ile Ile Glu
 225 230 235 240
 Leu Ala Gly Cys Asp Arg Leu Thr Ile Ala Pro Ala Leu Leu Lys Glu
 245 250 255
 Leu Ala Glu Ser Glu Gly Ala Ile Glu Arg Lys Leu Ser Tyr Thr Gly
 260 265 270
 Glu Val Lys Ala Arg Pro Glu Arg Ile Thr Glu Ser Glu Phe Leu Trp
 275 280 285
 Gln His Asn Gln Asp Pro Met Ala Val Asp Lys Leu Ala Asp Gly Ile
 290 295 300
 Arg Lys Phe Ala Ile Asp Gln Glu Lys Leu Glu Lys Met Ile Gly Asp
 305 310 315 320
 Leu Leu

<210> 7016

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7016

Pro Glu Arg Asp Phe Cys Arg Val Ala Ala Thr Pro Tyr Arg Ala Tyr
 1 5 10 15
 Asn Gly Ser Glu Arg Arg Pro Gly Lys Arg Ser Ala Thr Arg Leu Phe
 20 25 30
 Tyr Gly Glu Ile Lys Glu Lys Asn Ser Arg Lys Lys Ala Glu Ile Pro
 35 40 45
 Asn Lys Cys Gly His Leu Ala Phe Arg Ile Ala Glu Asn Asn Ile Pro
 50 55 60
 Arg Ser His His Val Leu Ser Leu His Arg Pro Thr Leu Gly Lys Lys
 65 70 75 80
 Asn Lys Glu Ser Pro Met Ser Thr Leu Lys Pro Ala Leu Ile Ala Leu

				85					90				95				
Ser	Leu	Met	Leu	Val	Ala	Pro	Met	Ala	Val	Gln	Ala	Ala	Glu	Ile	Thr		
			100					105					110				
Leu	Val	Pro	Ala	Val	Lys	Leu	Gln	Ile	Gly	Asp	Arg	Asp	Asn	Asn	Gly		
		115					120					125					
His	Tyr	Trp	Asp	Gly	Gly	Arg	Trp	Arg	Asp	His	Asp	Trp	Trp	Lys	Ala		
	130					135					140						
His	Tyr	Asp	Trp	Arg	Asp	Asn	His	Trp	Arg	Pro	His	Asp	Glu	His	Arg		
145					150					155					160		
Asp	Arg	Asp	Asp	His	His	Arg	His	Asp	Asp	Arg	Arg	Pro	Asp	Arg	Lys		
				165					170					175			
His	Tyr																

<210> 7017

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7017

Ser	Thr	Thr	His	Ala	Gln	Trp	Phe	Ala	Met	Ser	His	Asn	Thr	Arg	Pro		
1			5						10					15			
Leu	Asn	Arg	Gln	Asp	Tyr	Lys	Thr	Leu	Thr	Leu	Ala	Ala	Leu	Gly	Gly		
			20					25					30				
Ala	Leu	Glu	Phe	Tyr	Asp	Phe	Ile	Ile	Phe	Val	Phe	Phe	Ala	Ala	Val		
		35				40						45					
Val	Gly	Ala	Leu	Phe	Phe	Pro	Ala	Asp	Ile	Pro	Glu	Trp	Leu	Arg	Gln		
	50					55					60						
Val	Gln	Thr	Phe	Gly	Ile	Phe	Ala	Ala	Gly	Tyr	Leu	Ala	Arg	Pro	Leu		
65				70					75						80		
Gly	Gly	Ile	Val	Met	Ala	His	Phe	Gly	Asp	Leu	Val	Gly	Arg	Lys	Lys		
			85						90					95			
Met	Phe	Thr	Leu	Ser	Ile	Leu	Leu	Met	Ala	Val	Pro	Thr	Leu	Ala	Ile		
			100					105					110				
Gly	Leu	Leu	Pro	Thr	Tyr	Glu	Ser	Met	Gly	Ile	Ile	Ala	Pro	Leu	Leu		
	115					120						125					
Leu	Leu	Leu	Met	Arg	Ile	Leu	Gln	Gly	Ala	Ala	Ile	Gly	Gly	Glu	Val		
	130					135					140						
Pro	Gly	Ala	Trp	Val	Phe	Val	Ala	Glu	His	Val	Pro	Val	Arg	Arg	Ile		
145				150					155						160		
Gly	Ile	Ala	Cys	Gly	Thr	Leu	Thr	Ala	Gly	Leu	Thr	Ile	Gly	Ile	Leu		
			165					170						175			
Phe	Gly	Ser	Val	Val	Ala	Thr	Ile	Ile	Asn	Thr	Ser	Met	Thr	Gln	Gln		
			180					185					190				
Ala	Val	His	Asp	Trp	Gly	Trp	Arg	Ile	Pro	Phe	Leu	Leu	Gly	Gly	Ala		
	195					200						205					
Phe	Gly	Leu	Val	Ala	Met	Tyr	Leu	Arg	Arg	Trp	Leu	Gln	Glu	Thr	Pro		
	210					215					220						
Ile	Phe	Leu	Glu	Met	Gln	Gln	Arg	Lys	Ala	Leu	Ala	Gln	Glu	Leu	Pro		
225				230					235						240		
Val	Lys	Thr	Val	Val	Val	Arg	His	Lys	Lys	Ala	Val	Val	Val	Ser	Met		
			245					250						255			
Leu	Leu	Thr	Trp	Leu	Leu	Ser	Ala	Gly	Ile	Val	Val	Val	Ile	Leu	Met		
		260						265					270				
Ser	Pro	Val	Trp	Leu	Gln	Lys	Gln	Tyr	Gly	Phe	Ala	Pro	Ala	Val	Thr		
	275					280						285					
Leu	Gln	Ala	Asn	Ser	Ile	Ala	Thr	Ile	Met	Leu	Cys	Phe	Gly	Cys	Leu		
	290					295					300						
Ala	Ala	Gly	Leu	Ala	Ala	Asp	Arg	Phe	Gly	Ala	Ser	Val	Thr	Phe	Ile		
305				310					315						320		
Val	Gly	Ser	Leu	Leu	Leu	Ala	Ala	Ser	Ser	Trp	Ala	Phe	Tyr	His	Leu		

				325					330				335			
Ala	Gly	Thr	His	Pro	Glu	Gln	Leu	Phe	Leu	Leu	Tyr	Gly	Val	Val	Gly	
			340					345					350			
Leu	Cys	Val	Gly	Val	Val	Gly	Ala	Val	Pro	Tyr	Val	Met	Val	Arg	Ala	
		355					360					365				
Phe	Pro	Pro	Glu	Val	Arg	Phe	Thr	Gly	Ile	Ser	Phe	Ser	Tyr	Asn	Val	
	370					375					380					
Ser	Tyr	Ala	Ile	Phe	Gly	Gly	Leu	Thr	Pro	Ile	Val	Val	Thr	Val	Leu	
385					390					395					400	
Met	Gly	Leu	Ser	Pro	Leu	Ala	Pro	Ala	Trp	Tyr	Val	Leu	Ala	Leu	Ser	
			405						410					415		
Leu	Met	Gly	Leu	Val	Leu	Gly	Met	Trp	Leu	Arg	Gln	Ser	Glu	Gly	Arg	
			420					425					430			
Arg	Ala	Arg	Asp	Ala	Gly	Thr	Thr	Glu	Gly	Ser	Val	Phe	Phe	Thr	Asn	
		435					440					445				
Arg																
	450															

<210> 7018

<211> 822

<212> PRT

<213> Enterobacter cloacae

<400> 7018

Asn	Met	Arg	Val	Leu	Lys	Phe	Gly	Gly	Thr	Ser	Val	Ala	Asn	Ala	Glu	
1				5					10					15		
Arg	Phe	Leu	Arg	Val	Ala	Asp	Ile	Leu	Glu	Ser	Asn	Ala	Arg	Gln	Gly	
			20					25					30			
Gln	Val	Ala	Thr	Val	Leu	Ser	Ala	Pro	Ala	Lys	Ile	Thr	Asn	His	Leu	
		35					40					45				
Val	Ala	Met	Ile	Glu	Lys	Thr	Ile	Gly	Gly	Gln	Asp	Ala	Leu	Pro	Asn	
	50					55				60						
Ile	Ser	Asp	Ala	Glu	Arg	Ile	Phe	Ala	Asp	Leu	Leu	Gln	Gly	Leu	Ala	
65					70				75						80	
Asp	Ala	Gln	Pro	Gly	Phe	Pro	Leu	Ala	Gln	Leu	Lys	Ser	Thr	Val	Glu	
				85					90					95		
Leu	Glu	Phe	Ala	Gln	Ile	Lys	His	Val	Leu	His	Gly	Ile	Ser	Leu	Leu	
			100					105					110			
Gly	Gln	Cys	Pro	Asp	Ser	Ile	Asn	Ala	Ala	Leu	Ile	Cys	Arg	Gly	Glu	
		115					120					125				
Lys	Leu	Ser	Ile	Ala	Ile	Met	Ala	Gly	Val	Leu	Glu	Ala	Arg	Gly	His	
	130					135					140					
His	Val	Thr	Val	Ile	Asp	Pro	Val	Glu	Lys	Leu	Leu	Ala	Val	Gly	His	
145					150				155						160	
Tyr	Leu	Glu	Ser	Thr	Val	Asp	Ile	Ala	Glu	Ser	Thr	Arg	Arg	Ile	Ala	
				165					170					175		
Ala	Ser	Lys	Ile	Pro	Ser	Asp	His	Met	Ile	Leu	Met	Ala	Gly	Phe	Thr	
			180					185					190			
Ala	Gly	Asn	Glu	Lys	Gly	Glu	Leu	Val	Val	Leu	Gly	Arg	Asn	Gly	Ser	
		195					200					205				
Asp	Tyr	Ser	Ala	Ala	Val	Leu	Ala	Ala	Cys	Leu	Arg	Ala	Asp	Cys	Cys	
	210					215					220					
Glu	Ile	Trp	Thr	Asp	Val	Asp	Gly	Val	Tyr	Thr	Cys	Asp	Pro	Arg	Gln	
225				230						235					240	
Val	Pro	Asp	Ala	Arg	Leu	Leu	Lys	Ser	Met	Ser	Tyr	Gln	Glu	Ala	Met	
				245					250					255		
Glu	Leu	Ser	Tyr	Phe	Gly	Ala	Lys	Val	Leu	His	Pro	Arg	Thr	Ile	Ser	
			260					265					270			
Pro	Ile	Ala	Gln	Phe	Gln	Ile	Pro	Cys	Leu	Ile	Lys	Asn	Thr	Gly	Asn	
		275					280					285				
Pro	Gln	Ala	Pro	Gly	Thr	Leu	Ile	Gly	Ala	Ser	Ala	Asp	Glu	Asp	Asp	

290	295	300
Leu Pro Val Lys Gly Ile Ser Asn Leu Asn Asn Met Ala Met Phe Ser		
305	310	315
Val Ser Gly Pro Gly Met Lys Gly Met Val Gly Met Ala Ala Arg Val		
	325	330
Phe Ala Ala Met Ser Arg Asn Gly Ile Ser Val Val Leu Ile Thr Gln		
	340	345
Ser Ser Ser Glu Tyr Ser Ile Ser Phe Cys Val Pro Gln Gly Asp Cys		
	355	360
Leu Arg Ala Arg Arg Ala Leu Glu Glu Glu Phe Tyr Leu Glu Leu Lys		
	370	375
Glu Glu Leu Leu Glu Pro Leu Ser Ile Gln Glu Arg Leu Ala Ile Ile		
385	390	395
Ser Val Val Gly Asp Gly Met Arg Thr Leu Arg Gly Ile Ser Ala Lys		
	405	410
Phe Phe Ala Ala Leu Ala Arg Ala Asn Ile Asn Ile Val Ala Ile Ala		
	420	425
Gln Gly Ser Ser Glu Arg Ser Ile Ser Val Val Val Asp Asn Asp Asp		
	435	440
Ala Thr Thr Gly Val Arg Val Val His Gln Met Leu Phe Asn Thr Asp		
	450	455
Gln Val Ile Glu Leu Phe Leu Val Gly Val Gly Gly Val Gly Gly Ala		
465	470	475
Leu Leu Glu Gln Val Lys Arg Gln Gln Glu Trp Leu Lys Lys Lys His		
	485	490
Ile Asp Leu Arg Val Cys Gly Ile Ala Asn Ser Lys Ala Leu Leu Thr		
	500	505
Asn Val His Gly Leu Asn Leu Glu Asn Trp Gln Ala Glu Leu Glu Glu		
	515	520
Ala Lys Glu Pro Phe Asn Leu Gly Arg Leu Ile Arg Leu Val Lys Glu		
	530	535
Tyr His Leu Leu Asn Pro Val Ile Val Asp Cys Thr Ser Ser Gln Ala		
545	550	555
Val Ala Asp Gln Tyr Ala Asp Phe Leu Arg Glu Gly Phe His Val Val		
	565	570
Thr Pro Asn Lys Lys Ala Asn Thr Ser Ser Met Asp Tyr Tyr His Gln		
	580	585
Leu Arg Leu Ala Ala Ser Lys Ser Arg Arg Lys Phe Leu Tyr Asp Thr		
	595	600
Asn Val Gly Ala Gly Leu Pro Val Ile Glu Asn Leu Gln Asn Leu Leu		
	610	615
Asn Ala Gly Asp Glu Leu Lys Arg Phe Ser Gly Ile Leu Ser Gly Ser		
625	630	635
Leu Ser Phe Ile Phe Gly Lys Leu Asp Glu Gly Met Ser Leu Ser Glu		
	645	650
Ala Thr Arg Ala Ala Arg Glu Leu Gly Tyr Thr Glu Pro Asp Pro Arg		
	660	665
Asp Asp Leu Ser Gly Met Asp Val Ala Arg Lys Leu Leu Ile Leu Val		
	675	680
Arg Glu Thr Gly Arg Glu Leu Glu Leu Ser Asp Ile Val Ile Glu Pro		
	690	695
Val Leu Pro Ala Glu Phe Asp Asp Ser Gly Asp Val Ser Ala Phe Met		
705	710	715
Ala Asn Leu Pro Gln Leu Asp Asp Ala Phe Ala Ala Arg Val Ala Lys		
	725	730
Ala Arg Asp Glu Gly Lys Val Leu Arg Tyr Val Gly Asn Ile Glu Glu		
	740	745
Asp Gly Val Cys Arg Val Lys Ile Ala Glu Val Asp Gly Asn Asp Pro		
	755	760
Leu Tyr Lys Val Lys Asn Gly Glu Asn Ala Leu Ala Phe Tyr Ser His		
	770	775
		780

Tyr Tyr Gln Pro Leu Pro Leu Val Leu Arg Gly Tyr Gly Ala Gly Asn
 785 790 795 800
 Asp Val Thr Ala Ala Gly Val Phe Ala Asp Leu Leu Arg Thr Leu Ser
 805 810 815
 Trp Lys Leu Gly Val
 820

<210> 7019

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7019

Val Cys Tyr Arg Pro Gly Lys Thr Gly Lys Asn Asp Arg Arg Pro Ala
 1 5 10 15
 Val Ile Ile Leu Arg Asp Arg Val Pro Gly His Ala Ser Phe Pro Arg
 20 25 30
 Leu Cys Leu Asn Phe Leu Ser Ala Cys Ile Ile Pro Phe Asn Gln Tyr
 35 40 45
 Phe Leu Asn Gly Met Asp Met Asn Thr Leu Arg Ile Gly Leu Val Ser
 50 55 60
 Ile Ser Asp Arg Ala Ser Ser Gly Val Tyr Gln Asp Lys Gly Ile Pro
 65 70 75 80
 Ala Leu Glu Ala Trp Leu Gly Ser Ala Leu Thr Thr Pro Phe Glu Ile
 85 90 95
 Gln Thr Arg Leu Ile Pro Asp Glu Gln Pro Ile Ile Glu Gln Thr Leu
 100 105 110
 Cys Glu Leu Val Asp Glu Met Ser Cys His Leu Val Leu Thr Thr Gly
 115 120 125
 Gly Thr Gly Pro Ala Arg Arg Asp Val Thr Pro Asp Ala Thr Leu Ala
 130 135 140
 Ile Ala Asp Arg Glu Met Pro Gly Phe Gly Glu Gln Met Arg Gln Ile
 145 150 155 160
 Ser Leu His Phe Val Pro Thr Ala Ile Leu Ser Arg Gln Val Gly Val
 165 170 175
 Ile Arg Lys Gln Ala Leu Ile Leu Asn Leu Pro Gly Gln Pro Lys Ser
 180 185 190
 Ile Lys Glu Thr Leu Glu Gly Val Lys Ala Glu Asp Gly Ser Val Ile
 195 200 205
 Val His Gly Ile Phe Ala Ser Val Pro Tyr Cys Ile Gln Leu Leu Asp
 210 215 220
 Gly Pro Tyr Val Glu Thr Asp Gly Asn Val Val Ala Ala Phe Arg Pro
 225 230 235 240
 Lys Ser Ala Arg Arg Glu Thr Ile Ser
 245 250

<210> 7020

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7020

Val Thr Ala Cys Thr Ile Ser Gly Ser Ala Tyr Ile Phe Thr Leu Ala
 1 5 10 15
 Ser Thr Arg Gly Thr Leu Val Pro Asp Phe Phe Phe Phe Ile Asn Glu
 20 25 30
 Val Leu Trp Gly Ser Ile Met Ile Tyr Leu Leu Ser Gly Ala Gly Ile
 35 40 45
 Trp Phe Thr Trp Arg Ser Gly Leu Ile Gln Phe Arg Tyr Ile Arg Lys
 50 55 60
 Phe Gly Arg Ser Leu Lys Asn Ser Val Thr Pro Gln Pro Gly Gly Leu

65					70					75					80
Thr	Ser	Phe	Gln	Ala	Leu	Cys	Thr	Ser	Leu	Ala	Ala	Arg	Val	Gly	Ser
				85					90					95	
Gly	Asn	Leu	Ala	Gly	Val	Ala	Leu	Ala	Ile	Gly	Ala	Gly	Gly	Pro	Gly
			100					105					110		
Ala	Val	Phe	Trp	Met	Trp	Val	Thr	Ala	Ile	Ile	Gly	Met	Ala	Thr	Ser
		115					120					125			
Phe	Ala	Glu	Cys	Ser	Leu	Ala	Gln	Leu	Tyr	Lys	Glu	Lys	Asp	Gly	Lys
	130					135					140				
Gly	Gln	Phe	Arg	Gly	Gly	Pro	Ala	Trp	Tyr	Met	Ala	Arg	Gly	Leu	Gly
145					150					155				160	
Met	Arg	Trp	Met	Gly	Val	Leu	Phe	Ser	Ile	Phe	Leu	Leu	Ile	Ala	Tyr
				165					170					175	
Gly	Leu	Ile	Phe	Asn	Thr	Val	Gln	Ala	Asn	Ser	Val	Ala	His	Ala	Leu
			180					185					190		
Arg	Phe	Ala	Phe	Asn	Cys	Pro	Glu	Trp	Leu	Thr	Gly	Gly	Ala	Leu	Ala
		195					200					205			
Leu	Leu	Thr	Leu	Leu	Thr	Ile	Val	Thr	Gly	Leu	Lys	Gly	Val	Ala	Arg
	210					215					220				
Leu	Met	Gln	Trp	Leu	Val	Pro	Leu	Met	Ala	Leu	Leu	Trp	Val	Ser	Thr
225					230					235				240	
Ser	Leu	Met	Val	Cys	Ala	Ile	His	Ile	Asp	Glu	Val	Pro	Asn	Val	Ile
				245					250					255	
Val	Thr	Ile	Phe	Gln	Ser	Ala	Phe	Gly	Trp	Arg	Glu	Ala	Ala	Ser	Gly
			260					265					270		
Ala	Leu	Gly	Tyr	Thr	Leu	Ser	Gln	Ala	Leu	Thr	Ala	Gly	Phe	Gln	Arg
		275					280					285			
Gly	Met	Phe	Ser	Asn	Glu	Ala	Gly	Met	Gly	Ser	Thr	Pro	Asn	Ala	Ala
	290					295				300					
Ala	Ala	Ala	Ala	Ser	Trp	Pro	Pro	His	Pro	Ala	Ala	Gln	Gly	Ile	Val
305					310					315				320	
Gln	Met	Ile	Gly	Val	Phe	Thr	Asp	Thr	Ile	Val	Ile	Cys	Ser	Ala	Ser
				325					330					335	
Ala	Met	Ile	Met	Leu	Leu	Ala	Gly	Ala	Ala	Glu	Gln	Pro	Ser	Gly	Ser
			340				345						350		
Thr	Ala	Gly	Ile	His	Trp	Val	Gln	Gln	Ala	Leu	Val	Ser	Leu	Val	Gly
		355					360					365			
Gly	Trp	Gly	Ala	Gly	Leu	Val	Ala	Leu	Val	Val	Gly	Leu	Phe	Ala	Phe
	370					375					380				
Ser	Ser	Ile	Ala	Val	Asn	Tyr	Met	Tyr	Ala	Glu	Asn	Asn	Leu	Ile	Phe
385					390					395				400	
Leu	Lys	Val	Asn	Ser	Cys	Leu	Thr	Arg	Asn	Val	Leu	Arg	Ala	Gly	Val
			405						410					415	
Leu	Gly	Met	Val	Phe	Val	Gly	Ser	Leu	Leu	Gly	Met	Pro	Leu	Val	Trp
		420						425					430		
Gln	Ile	Ala	Asp	Val	Ile	Met	Ala	Leu	Met	Ala	Ile	Thr	Asn	Leu	Thr
	435						440					445			
Ala	Ile	Leu	Leu	Leu	Ser	Pro	Val	Val	Ala	Leu	Ile	Ala	Arg	Asp	Tyr
	450					455					460				
Leu	Arg	Gln	Arg	Lys	Leu	Gly	Val	Gln	Pro	Val	Phe	Asp	Ala	Ser	Arg
465					470					475				480	
Tyr	Pro	Glu	Ile	Glu	Ser	Gln	Ile	Ala	Pro	Gly	Thr	Trp	Asp	Asp	Leu
				485					490					495	
Pro	Arg	Gln													

500

<210> 7021

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 7021

Gln Leu Ser Ile Asn Ser Gly Arg Phe Phe Val Lys Val Ala Leu Asn
 1 5 10 15
 Phe Leu Gln Gly Leu Asp Met Leu Ile Leu Ile Ser Pro Ala Lys Thr
 20 25 30
 Leu Asp Tyr Gln Ser Pro Leu Ala Thr Glu Arg Tyr Thr Gln Pro Glu
 35 40 45
 Leu Leu Asp Tyr Ser Gln Gln Leu Ile His Glu Ala Arg Lys Leu Ser
 50 55 60
 Ala Pro Gln Ile Ala Ser Leu Met Ser Ile Ser Asp Lys Leu Ala Asp
 65 70 75 80
 Leu Asn Ala Thr Arg Phe His Glu Trp Gln Pro Asp Phe Thr Pro Ala
 85 90 95
 Asn Ala Arg Gln Ala Leu Leu Ala Phe Lys Gly Asp Val Tyr Thr Gly
 100 105 110
 Leu Gln Ala Glu Thr Phe Ser Glu Ala Asp Phe Asp Phe Ala Gln Gln
 115 120 125
 His Leu Arg Met Leu Ser Gly Leu Tyr Gly Val Leu Arg Pro Leu Asp
 130 135 140
 Leu Met Gln Pro Tyr Arg Leu Glu Met Gly Ile Arg Leu Glu Asn Ala
 145 150 155 160
 Lys Gly Lys Asp Leu Tyr Gln Phe Trp Gly Asp Val Ile Thr Asp Lys
 165 170 175
 Leu Asn Ala Ala Leu Gln Ala Gln Gly Asp Asn Val Val Ile Asn Leu
 180 185 190
 Ala Ser Asp Glu Tyr Phe Lys Ser Val Lys Pro Lys Lys Leu Asp Ala
 195 200 205
 Asp Ile Ile Lys Pro Val Phe Leu Asp Glu Lys Asn Gly Lys Phe Lys
 210 215 220
 Val Ile Ser Phe Tyr Ala Lys Lys Ala Arg Gly Leu Met Ser Arg Phe
 225 230 235 240
 Ile Ile Gln Asn Arg Leu Thr Lys Pro Glu Gln Leu Thr Gly Phe Asn
 245 250 255
 Ser Glu Gly Tyr Phe Phe Asp Glu Ala Ser Ser Gly Lys Asn Glu Leu
 260 265 270
 Val Phe Lys Arg His Glu Gln
 275 280

<210> 7022

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 7022

His Pro Tyr Cys Leu Phe Asn Val Ser Cys Ala Arg Arg Leu Gly Leu
 1 5 10 15
 Gly Met Thr Thr Asn Leu Leu Ile Leu His Asn Ile Gly Met Phe Pro
 20 25 30
 Met Asp Gly Ile Ile Leu Pro Met Gly Ile Phe Tyr Gly Gly Ile Ala
 35 40 45
 Gln Ile Phe Ala Gly Leu Leu Glu Tyr Lys Lys Gly Asn Thr Phe Gly
 50 55 60
 Leu Thr Ala Phe Thr Ser Tyr Gly Ser Phe Trp Leu Thr Leu Val Ala
 65 70 75 80
 Ile Leu Leu Met Pro Lys Met Gly Leu Ala Glu Ala Ala Asn Ala His
 85 90 95
 Phe Leu Gly Val Tyr Leu Gly Leu Trp Gly Val Phe Thr Leu Phe Met
 100 105 110
 Phe Phe Gly Thr Leu Lys Ala Asn Arg Ala Leu Gln Phe Val Phe Leu
 115 120 125
 Ser Leu Thr Val Leu Phe Ala Leu Leu Ala Ile Gly His Leu Ala Asp

130		135		140											
Asn	Glu	Gly	Ile	Val	His	Val	Ala	Gly	Trp	Val	Gly	Leu	Val	Cys	Gly
145					150					155					160
Ala	Ser	Ala	Ile	Tyr	Leu	Ala	Met	Gly	Glu	Val	Leu	Asn	Glu	Gln	Phe
			165						170					175	
Asp	Arg	Thr	Ile	Leu	Pro	Ile	Gly	Glu	Lys	His					
			180					185							

<210> 7023

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 7023

Thr	Thr	Leu	Phe	Ala	Ala	Ala	Leu	Ala	Val	Val	Gly	Phe	Cys	Lys	Thr
1			5						10					15	
Ala	Ser	Ala	Val	Thr	Tyr	Pro	Leu	Pro	Thr	Asp	Gly	Ser	Arg	Leu	Val
		20					25						30		
Gly	Glu	Asn	Gln	Val	Val	Thr	Val	Pro	Glu	Gly	Asn	Thr	Gln	Pro	Leu
		35					40					45			
Glu	Tyr	Phe	Ala	Ala	Gln	Tyr	Gln	Leu	Gly	Leu	Ser	Asn	Met	Leu	Glu
	50					55					60				
Ala	Asn	Pro	Gly	Val	Asp	Pro	Tyr	Leu	Pro	Lys	Ala	Gly	Thr	Val	Leu
65					70					75					80
Asn	Ile	Pro	Gln	Gln	Leu	Ile	Leu	Pro	Asp	Thr	Val	His	Glu	Gly	Ile
			85						90					95	
Val	Ile	Asn	Ser	Ala	Glu	Met	Arg	Leu	Tyr	Tyr	Tyr	Pro	Lys	Gly	Thr
		100						105					110		
Asn	Thr	Val	Ile	Val	Leu	Pro	Ile	Gly	Ile	Gly	Gln	Leu	Gly	Lys	Asp
		115					120					125			
Thr	Pro	Leu	Asn	Trp	Thr	Thr	Lys	Val	Glu	Arg	Lys	Lys	Ala	Gly	Pro
	130					135						140			
Thr	Trp	Thr	Pro	Thr	Ala	Lys	Met	His	Ala	Glu	Tyr	Ile	Ala	Ala	Gly
145					150					155					160
Glu	Pro	Leu	Pro	Thr	Val	Val	Pro	Ala	Gly	Pro	Asp	Asn	Pro	Met	Gly
			165						170					175	
Leu	Tyr	Ala	Leu	Tyr	Ile	Gly	Arg	Leu	Tyr	Ala	Ile	His	Gly	Thr	Asn
		180					185						190		
Ala	Asn	Phe	Gly	Ile	Gly	Leu	Arg	Val	Ser	His	Gly	Cys	Val	Arg	Leu
	195						200					205			
Arg	Asn	Glu	Asp	Ile	Lys	Phe	Leu	Phe	Asp	Asn	Val	Pro	Val	Gly	Thr
	210				215						220				
Arg	Val	Gln	Phe	Ile	Asn	Glu	Pro	Val	Lys	Ala	Thr	Ser	Glu	Pro	Asp
225					230					235					240
Gly	Ser	Arg	Tyr	Ile	Glu	Val	His	Asn	Pro	Leu	Ser	Thr	Ser	Glu	Asp
			245						250					255	
Gln	Ile	Asn	Asn	Glu	Ile	Val	Pro	Ile	Lys	Leu	Thr	Ser	Ala	Val	
		260					265					270			
Gln	Ser	Val	Thr	Ser	Gln	Ala	Asp	Val	Asp	Thr	Thr	Ile	Val	Asp	Gln
	275					280						285			
Ala	Ile	Gln	Asn	Arg	Ser	Gly	Met	Pro	Val	Arg	Leu	Asn			
	290					295					300				

<210> 7024

<211> 336

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (328)

<400> 7024

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Ser Met Asn Val Thr Leu Ile Asp Thr Leu Val Thr Arg Ser Arg Gly
1      5      10      15
Leu Ser Pro Trp Thr Gly Phe Tyr Phe Leu Gln Ser Leu Leu Ile Asn
20      25      30
Phe Ala Leu Gly Tyr Pro Phe Ser Leu Leu Tyr Ala Val Gly Phe Thr
35      40      45
Cys Ile Leu His Leu Leu Trp Arg Ser Ala Pro Arg Met Gln Lys Val
50      55      60
Leu Ile Gly Ile Cys Ser Leu Val Ala Ala Ala Tyr Phe Pro Phe Gly
65      70      75      80
Gln Ala Tyr Gly Ala Pro Asn Phe Asn Thr Leu Leu Ala Leu His Ser
85      90      95
Thr Asn Met Glu Glu Ser Thr Glu Ile Leu Thr Ile Phe Pro Trp Tyr
100     105     110
Asn Tyr Val Val Gly Leu Phe Ile Phe Ala Leu Gly Val Ile Ala Val
115     120     125
Arg Arg Lys Pro Val Gly Lys Lys Ala Trp Gly Lys Ile Glu Ser Leu
130     135     140
Cys Leu Ala Phe Ser Val Val Thr Phe Phe Val Ala Pro Val Gln Asn
145     150     155     160
Met Ala Trp Gly Gly Val Phe Lys Leu Lys Asp Thr Gly Tyr Pro Val
165     170     175
Phe Arg Phe Val Lys Asp Val Val Val Asn Asn Glu Glu Val Leu Asp
180     185     190
Glu Gln Ala Arg Met Ala Glu Leu Ser Thr Met Lys Asp Thr Trp Asn
195     200     205
Val Leu Ala Val Lys Pro Lys Tyr His Thr Tyr Val Val Val Ile Gly
210     215     220
Glu Ser Ala Arg Arg Asp Ala Leu Gly Ala Phe Gly Gly His Trp Asp
225     230     235     240
Asn Thr Pro Phe Ala Ser Ala Val Asn Gly Thr Leu Phe Thr Asp Tyr
245     250     255
Val Ala Ala Ser Gly Ser Thr Gln Lys Ser Leu Gly Leu Thr Leu Asn
260     265     270
Arg Val Val Asp Gly Lys Pro Gln Phe Gln Asp Asn Phe Val Thr Leu
275     280     285
Ala Asn Arg Ala Gly Phe Gln Thr Trp Trp Phe Ser Asn Gln Gly Gln
290     295     300
Ile Gly Glu Tyr Asp Thr Ala Ile Ala Ser Ile Lys Lys Arg Ala Asp
305     310     315     320
Glu Val His Phe Leu Phe Phe Xaa His Asp Ala Pro Asn Pro Arg Tyr
325     330     335

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<210> 7025

<211> 370

<212> PRT

<213> *Enterobacter cloacae*

<400> 7025

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Met Asn Ile Pro Gly Leu Gln Ala Leu Lys Arg Asp Arg Phe Phe His
1      5      10      15
Leu Leu Leu Ile Thr Gly Val Gly Leu Ser Val Phe Val Pro Phe Thr
20      25      30
Pro His Thr Trp Pro Ala Ala Ile Asp Trp Arg Thr Ile Thr Leu
35      40      45
Ser Gly Leu Met Met Leu Thr Lys Gly Val Glu Leu Ser Gly Tyr Phe
50      55      60
Asp Val Leu Gly Arg Lys Met Val Arg Arg Phe Ala Thr Glu Arg Lys
65      70      75      80

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Leu Ala Leu Phe Met Val Phe Ser Ala Ala Leu Leu Ser Thr Phe Leu
 85 90 95
 Thr Asn Asp Val Ala Leu Phe Ile Val Val Pro Leu Thr Leu Thr Leu
 100 105 110
 Arg Lys Leu Cys Glu Ile Pro Val Thr Arg Leu Ile Ile Phe Glu Ala
 115 120 125
 Leu Ala Val Asn Ala Gly Ser Leu Leu Thr Pro Ile Gly Asn Pro Gln
 130 135 140
 Asn Ile Leu Leu Trp Gly Arg Ser Gly Leu Ser Phe Thr Ala Phe Thr
 145 150 155 160
 Gly Gln Met Ala Pro Leu Ala Leu Ala Ile Val Ala Ser Leu Leu Ala
 165 170 175
 Val Gly Trp Phe Ala Phe Pro Asn Lys Ser Leu Gln Tyr His Ser Gly
 180 185 190
 Thr Thr Gly Pro Gln Trp Gln Pro Arg Leu Val Trp Ser Cys Leu Gly
 195 200 205
 Leu Tyr Ile Val Phe Leu Ile Ala Leu Glu Leu Asn Gln Ala Leu Ala
 210 215 220
 Gly Ala Leu Leu Val Ala Cys Gly Phe Leu Phe Leu Ala Arg Arg Val
 225 230 235 240
 Leu Val Ser Val Asp Trp Thr Leu Leu Leu Val Phe Met Ala Met Phe
 245 250 255
 Ile Asp Val His Leu Leu Ile Gln Leu Pro Val Leu Gln Asn Val Leu
 260 265 270
 His Ser Val Gly Gly Leu Ser Gln Pro Gly Leu Trp Leu Thr Ala Ile
 275 280 285
 Gly Leu Ser Gln Val Ile Ser Asn Val Pro Ser Thr Ile Leu Leu Leu
 290 295 300
 Asn Tyr Val Pro Pro Thr Val Leu Leu Ala Trp Ala Val Asn Val Gly
 305 310 315 320
 Gly Phe Gly Leu Leu Pro Gly Ser Leu Ala Asn Leu Ile Ala Leu Arg
 325 330 335
 Met Ala Asn Asp Arg Arg Ile Trp Trp Arg Phe His Leu Trp Ser Ile
 340 345 350
 Pro Met Leu Leu Trp Ser Ala Ala Val Gly Phe Gly Leu Phe Leu Leu
 355 360 365
 Ile
 370

<210> 7026

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 7026

Glu Arg Gly Glu Cys Arg Ser Thr Leu Met Ile His Arg Arg Leu His
 1 5 10 15
 Pro Leu Met Ile Met Met Leu Leu Val Gly Cys Ala Val Gly Pro Asp
 20 25 30
 Tyr Gln Gln Pro Ala Pro Pro Ala Thr Thr His Trp Asn Asp Lys Gly
 35 40 45
 Asp Ser Ala Val Lys Ser Gln Thr Ser Ser Ala Ala Thr Asn Pro Arg
 50 55 60
 Trp Trp Lys Thr Phe Gly Ser Pro Gln Leu Asp Ser Leu Ile Glu Arg
 65 70 75 80
 Ala Ile Ala Gly Asn Leu Thr Leu Gln Gln Thr Val Leu Arg Ile Ala
 85 90 95
 Gly Ala Arg Glu Gln Ile Asn Gln Ala Gly Gly Ala Phe Phe Pro Ser
 100 105 110
 Val Asn Gly Asn Val Gln Ala Thr Arg Gln Gln Leu Gly Leu Glu Gly
 115 120 125

Glu Leu Lys Ser His Gly Val Tyr Asp Gln Leu Asn Asn Val Asp Pro
 130 135 140
 Glu Leu Arg Gly Ala Leu Gly Pro Leu Thr Gln Pro Ile Asn Leu Tyr
 145 150 155 160
 Gln Gly Ser Phe Asp Ala Gln Trp Glu Ile Asp Leu Trp Gly Lys Val
 165 170 175
 Arg Arg Gln Val Glu Ala Ala Glu Ala Gln Gln Arg Ala Ala Ile Glu
 180 185 190
 Gln Arg Asn Asp Val Leu Val Ser Leu Glu Ala Glu Val Ala Arg Ala
 195 200 205
 Trp Leu Gln Leu Arg Gly Ala Gln Ser Ile Ile Ala Thr Leu Asn Thr
 210 215 220
 Gln Ile Glu Ser Ala Gln Gln Thr Leu Asp Leu Thr Glu Ser Arg Gln
 225 230 235 240
 Arg Gly Gly Leu Ser Pro Gln Met Asp Val Glu Asn Ala Arg Ala Gln
 245 250 255
 Leu Gly Asn Leu Glu Ala Gln Leu Pro Gln Tyr Gln Ala Gln Glu Arg
 260 265 270
 Gln Ala Met Asn Gly Leu Ala Ile Leu Leu Gly Lys Pro Pro Gly Ala
 275 280 285
 Leu Asp Ala Glu Leu Gln Ser Val Gln Pro Met Pro Ala Leu Pro Asp
 290 295 300
 Ile Val Gln Thr Gly Ile Pro Ser Thr Leu Ala Arg Arg Arg Pro Asp
 305 310 315 320
 Val Arg Glu Ala Glu Ala Asn Leu His Ala Ala Thr Ala Gln Ile Gly
 325 330 335
 Val Ser Val Ala Glu Leu Phe Pro Ser Phe Thr Leu Ser Gly Gln Phe
 340 345 350
 Gly Leu Arg Asn Ser Glu Ser Asn Trp Leu Thr Asp Trp Ser Ser His
 355 360 365
 Phe Tyr Ser Phe Gly Pro Gln Val Ser Ile Pro Ile Phe Gln Gly Gly
 370 375 380
 Arg Leu Val Ser Ser Val Lys Val Ala Arg Ala Gln Gln Gly Ala Ala
 385 390 395 400
 Val Leu Asp Tyr Arg Gln Thr Val Leu Thr Ala Leu Gly Asp Val Glu
 405 410 415
 Asn Ala Leu Val Ser Tyr Arg Thr Asp Gln Gln Arg Glu Ala Gly Leu
 420 425 430
 Ala Lys Thr Ile Asp Ala Leu Gln Asn Ala Phe Asp Leu Ala Ser Asp
 435 440 445
 Ser Tyr Arg Gln Gly Ile Ala Ser Phe Ile Asp Val Leu Asp Ala Gln
 450 455 460
 Arg Gln Leu Ala Gln Ala Glu Gln Gln Arg Ala Gln Ala Gln Val Gln
 465 470 475 480
 Ser Ala Leu Asp Leu Val Ala Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 485 490 495
 Glu Pro Tyr Gln Gln Val Arg Leu Pro Asp Tyr Ser Val Phe Gly Asp
 500 505 510
 Ala Pro Arg Gly
 515

<210> 7027

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 7027

Gly Arg Thr Met Ala Ala Lys Tyr Ile Thr Ile Ala Arg Glu Ile Lys
 1 5 10 15
 Lys Arg Ile Ile Ser Gln Gln Tyr Ala Ala Asn Glu Pro Leu Pro Asp
 20 25 30

Gln Phe Ala Leu Ala Ala Glu Phe Ser Thr Ser Arg Met Thr Ile Gln
 35 40 45
 Gln Ala Met Arg Gln Leu Ile Val Glu Gly Leu Val Tyr Thr Arg Gln
 50 55 60
 Gly Gln Gly Thr Phe Ile Arg Lys Asn Phe Leu Gln Leu Ser Gln Trp
 65 70 75 80
 Asp Leu Ser Gly Ser Asp Tyr Phe Gly Ala Thr Lys Thr Trp Glu His
 85 90 95
 Leu Gly Thr Val Ser Ser Gln Val Val His Phe Glu Leu Arg Phe Pro
 100 105 110
 Asn Glu Lys Glu Gln Ala Ser Leu Met Ile Asn Pro Asp Thr Pro Ile
 115 120 125
 Tyr Asp Phe Ile Arg Leu Arg Leu Leu Asn Gly Glu Pro Met Ser Leu
 130 135 140
 Asp Ala Thr Val Met Pro Leu Asn Leu Val Pro Gly Leu Asn Lys Thr
 145 150 155 160
 His Leu Glu Ser Ser Val Phe Arg Tyr Val Gln Glu Thr Leu Gly Leu
 165 170 175
 Lys Ile Met Gly Ser Tyr Arg Val Val Arg Ala Leu Lys Pro Ser Ala
 180 185 190
 Leu Asp Met Gln His Leu Val Cys Glu Pro Thr Asp Ser Val Leu Glu
 195 200 205
 Val Glu Gln Val Ile Tyr Leu Glu Asp Gly Thr Pro Leu Glu Tyr Ala
 210 215 220
 His Cys His Tyr Arg Tyr Asp His Gly Gly Ile Val Ile Val Asn Asn
 225 230 235 240
 Gly

<210> 7028

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 7028

Gly Ser Thr Met Asn Arg Arg Ala Gly Lys Pro Thr Thr Lys Lys Thr
 1 5 10 15
 Thr Gln Leu Val Asn Val Glu Glu His Val Glu Gly Phe Arg Gln Val
 20 25 30
 Arg Glu Ala His Arg Arg Glu Leu Ile Asp Asp Tyr Val Glu Leu Ile
 35 40 45
 Ser Asp Leu Ile Arg Glu Val Gly Glu Ala Arg Gln Val Asp Met Ala
 50 55 60
 Ala Arg Leu Gly Val Ser Gln Pro Thr Val Ala Lys Met Leu Lys Arg
 65 70 75 80
 Leu Ala Ser Val Gly Leu Ile Glu Met Ile Pro Trp Arg Gly Val Phe
 85 90 95
 Leu Thr Ala Glu Gly Glu Lys Leu Ala Gln Glu Ser Arg Glu Arg His
 100 105 110
 Gln Ile Val Glu Asn Phe Leu Leu Val Leu Gly Val Ser Pro Glu Ile
 115 120 125
 Ala Arg Arg Asp Ala Glu Gly Met Glu His His Val Ser Glu Glu Thr
 130 135 140
 Leu Val Lys Phe Arg Glu Phe Thr Leu Lys Tyr Gly Pro Ser Ala Glu
 145 150 155 160

<210> 7029

<211> 530

<212> PRT

<213> Enterobacter cloacae

<400> 7029

Thr Glu Gly His Arg Gly Met Thr Asp His Ser His Asp Asn Trp Lys
 1 5 10 15
 Pro Ala Ser Asn Pro Trp Ala Val Ala Ile Val Val Thr Leu Ala Val
 20 25 30
 Phe Met Glu Ile Leu Asp Thr Thr Ile Val Asn Val Ala Leu Pro His
 35 40 45
 Val Ala Gly Ser Leu Ser Ala Ser Tyr Asp Glu Ser Thr Trp Val Leu
 50 55 60
 Thr Ser Tyr Leu Val Ala Asn Gly Ile Val Leu Pro Ile Ser Ala Phe
 65 70 75 80
 Leu Ser Arg Leu Phe Gly Arg Lys Gln Phe Phe Leu Ile Cys Ile Val
 85 90 95
 Met Phe Thr Ile Cys Ser Phe Leu Cys Gly Ile Ala Thr Glu Leu Trp
 100 105 110
 Gln Ile Ile Leu Phe Arg Val Met Gln Gly Phe Phe Gly Gly Gly Leu
 115 120 125
 Gln Pro Thr Gln Gln Ser Val Leu Leu Asp Tyr Phe Lys Pro Glu Asp
 130 135 140
 Arg Gly Lys Ala Phe Gly Leu Ser Ser Ile Ala Ile Val Ala Pro
 145 150 155 160
 Val Leu Gly Pro Thr Leu Gly Gly Trp Ile Thr Asp Asn Tyr Ser Trp
 165 170 175
 Arg Trp Val Phe Phe Ile Asn Ile Pro Val Gly Ile Val Thr Val Leu
 180 185 190
 Ala Ile Tyr Gln Leu Leu Glu Asp Pro Pro Trp Glu Lys Lys Ser Glu
 195 200 205
 Glu Lys Leu Thr Val Asp Trp Thr Gly Ile Gly Leu Ile Ala Leu Gly
 210 215 220
 Leu Gly Cys Leu Gln Val Met Leu Asp Arg Gly Glu Asp Asp Asp Trp
 225 230 235 240
 Phe Tyr Ser Asn Phe Ile Arg Thr Phe Ala Val Leu Thr Leu Val Gly
 245 250 255
 Ile Ile Gly Ala Ile Tyr Trp Leu Met Tyr Ala Arg Lys Pro Val Val
 260 265 270
 Asp Leu His Cys Met Lys Asp Arg Asn Phe Ala Ile Ser Ser Leu Leu
 275 280 285
 Met Ala Gly Met Ala Met Ile Leu Tyr Gly Ser Ser Val Val Ile Pro
 290 295 300
 Gln Leu Ala Gln Gln Asp Leu Gly Tyr Thr Ala Thr Trp Ser Gly Leu
 305 310 315 320
 Val Leu Ser Pro Gly Ala Val Leu Ile Val Leu Thr Ile Pro Leu Val
 325 330 335
 Leu Lys Leu Met Pro Val Val Gln Thr Arg Trp Ile Ile Ala Phe Gly
 340 345 350
 Phe Thr Cys Leu Ala Val Ser Phe Phe Trp Ser Arg Thr Leu Thr Pro
 355 360 365
 Asp Ile Asp Phe Glu Thr Leu Val Leu Phe Arg Ser Ala Gln Ser Ile
 370 375 380
 Gly Leu Gly Phe Leu Phe Val Pro Leu Thr Thr Ile Ala Phe Ile Ser
 385 390 395 400
 Ile Pro Arg Arg Leu Asn Ala Asp Ala Ala Ala Leu Phe Thr Met Phe
 405 410 415
 Arg Asn Val Ala Gly Ser Ile Gly Ile Ser Leu Ser Thr Ala Ala Ile
 420 425 430
 Thr Glu Arg Ser Gln Ala His Ser Ala His Leu Ala Tyr His Ala Ser
 435 440 445
 Pro Phe Asn Glu Gln Phe Gln Leu Ala Ile Arg Glu Ser Ala Gln Ala
 450 455 460

Ile Gln Asn Phe Thr Thr Gln Val Gly Asp Pro Thr Gly Ile Ala Thr
 465 470 475 480
 Gly Arg Met Tyr Gln Thr Met Ile Glu Gln Ser Arg Phe Leu Ala Tyr
 485 490 495
 Ile Asp Val Phe Thr Ile Leu Ser Ala Val Ala Leu Leu Leu Ile Pro
 500 505 510
 Phe Cys Leu Leu Leu Ser Pro Val Lys Ser Glu Gly Ser Ala Gly Ala
 515 520 525
 His
 530

<210> 7030

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7030

Leu Val Ile Lys Gly Ala Thr Met Asn Lys Ser Leu Pro Ala Asn Phe
 1 5 10 15
 Leu Trp Gly Asn Ser Val Ser Ser Met Gln Thr Glu Gly Ala Trp Asn
 20 25 30
 Glu Gly Gly Lys Gly Met Ser Val Tyr Asp Ile Arg Glu Ala Gly Glu
 35 40 45
 Asn Ile Ser Asp Trp Lys Val Ala Thr Asp Ser Tyr His Arg Tyr Arg
 50 55 60
 Glu Asp Phe Asp Leu Met Gln Asp Leu Gly Met Asn Cys Tyr Arg Phe
 65 70 75 80
 Gln Ile Ser Trp Ser Arg Ile Cys Pro Gln Gly Asp Gly Glu Phe Asn
 85 90 95
 Asp Glu Gly Ile Ala Phe Tyr Asp Arg Phe Ile Asp Asp Leu Leu Ala
 100 105 110
 Arg Gly Ile Glu Pro Met Val Cys Leu Tyr His Phe Asp Met Pro Leu
 115 120 125
 Ala Leu Ala Gln Glu Tyr Asn Gly Phe Ile Asp Arg Arg Val Val Asp
 130 135 140
 Ala Phe Ile Arg Tyr Gly Lys Lys Met Ile Asp Cys Phe Ala Asp Arg
 145 150 155 160
 Val Lys Tyr Trp Leu Thr Phe Asn Glu Gln Asn Ile Phe His Met Pro
 165 170 175
 Glu Ala Phe Arg Ile Ser Gly Tyr Met Lys Gly Glu Gln Thr Leu Arg
 180 185 190
 Glu Leu Tyr Glu Leu Gln His His Ala Met Val Ala His Met Thr Leu
 195 200 205
 Thr Glu Tyr Leu His Gln Thr Lys Pro Gly Lys Leu Met Gly Gly Met
 210 215 220
 Leu Ala His Gln Leu Ile Tyr Pro Ala Thr Cys Lys Pro Arg Asp Ile
 225 230 235 240
 Phe Cys Ala Gln Gln Tyr Asp Glu Phe Leu Asn Gln Asn Leu Leu Arg
 245 250 255
 Val Phe Ala Gly Gln Gly Tyr Ser Pro Ala Val Met Ala Val Val Glu
 260 265 270
 Gln Glu Gly Phe Gly Asp Ile Tyr Arg Ala Asp Asp Leu Ala Leu Phe
 275 280 285
 Ala Arg Thr Lys Asn Asp Phe Met Ala Phe Ser Tyr Tyr Ala Ser Lys
 290 295 300
 Thr Leu Asp Ser Asp Ala Ile Pro Glu Gly Thr Pro Val Asn Tyr Tyr
 305 310 315 320
 Leu Leu His Gly Glu Lys Asn Asn Pro Tyr Leu Lys Ala Thr Glu Trp
 325 330 335
 Asn Trp Gln Ile Asp Pro Leu Gly Phe Arg Thr Ile Ile Thr Arg Tyr
 340 345 350

Ala Asn Asp Trp Arg Met Pro Val Phe Pro Ile Glu Asn Gly Ile Gly
 355 360 365
 Val Ile Glu Ser Trp Asp Gly Val Asn Pro Val Glu Asp Thr Tyr Arg
 370 375 380
 Ile Asp Tyr His Arg Ala His Ile Glu Ala Met Lys Ala Ala Ile Phe
 385 390 395 400
 Glu Asp Gly Ala Glu Val Met Gly Tyr Leu Gly Trp Gly Leu Ile Asp
 405 410 415
 Ile Leu Ser Ser Gln Gly Asp Met Arg Lys Arg Tyr Gly Val Val Tyr
 420 425 430
 Val Asn Arg Glu Asn His Asp Leu Lys Asp Leu Lys Arg Val Pro Lys
 435 440 445
 Lys Ser Tyr Ala Trp Leu Lys Gln Val Ile His Thr Asn Gly Arg Glu
 450 455 460
 Met
 465

<210> 7031

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 7031

Trp Glu His Ser Ala Met Ser Glu Thr Lys Ile Thr Pro His Met Gln
 1 5 10 15
 Ser Phe Val Asp Lys Phe Val Glu Phe Ser Ala Arg Leu Ala Asn Gln
 20 25 30
 Val His Leu Arg Ser Leu Arg Asp Ala Phe Ala Thr Val Met Pro Ile
 35 40 45
 Phe Ile Leu Ala Gly Leu Ala Val Leu Val Asn Asn Val Val Phe Pro
 50 55 60
 Trp Ile Phe Ala Gly Asp Thr Leu Thr His Phe Lys Val Trp Gly Glu
 65 70 75 80
 Ala Ile Ile Asn Gly Thr Leu Asn Ile Ala Ala Leu Leu Leu Ala Pro
 85 90 95
 Met Ile Ala Trp Ser Leu Ala Arg Asn Lys Asp Phe Asp Asn Pro Val
 100 105 110
 Ser Ala Val Val Ile Ala Val Ser Ser Phe Ile Ile Met Met Pro Met
 115 120 125
 Arg Leu Gln Ile Thr Pro Val Gly Ser Glu Ala Thr Val Asn Ala Thr
 130 135 140
 Gln Val Leu Thr Phe Ala Asn Ile Gly Ser Thr Gly Ile Phe Ala Gly
 145 150 155 160
 Val Leu Ile Gly Leu Leu Ser Thr Glu Val Phe Ile Ala Ile Ser Arg
 165 170 175
 Leu Lys Ala Leu His Ile Ser Leu Gly Glu Asn Val Pro Pro Ala Val
 180 185 190
 Ser Lys Ser Phe Thr Ala Leu Ile Pro Thr Ile Leu Thr Leu Ser Leu
 195 200 205
 Phe Ala Val Leu Ala Ala Ile Leu Ala Asn Val Leu His Thr Asp Leu
 210 215 220
 Ile His Leu Ile Thr Thr Phe Ile Gln Gln Pro Leu Arg Leu Ile Asn
 225 230 235 240
 Thr Ser Leu Pro Gly Thr Ile Phe Ile Tyr Ser Phe Gly Asn Phe Leu
 245 250 255
 Phe Thr Leu Gly Ile His Gln Ser Val Val Asn Ser Val Val Leu Glu
 260 265 270
 Pro Phe Leu Leu Ile Asn Thr Asn Glu Asn Met Leu Ala Phe Ala Asn
 275 280 285
 Gly Gln Pro Ile Pro His Ile Ile Asn Asn Ile Phe Val Pro Thr Phe
 290 295 300

Gly Met Val Gly Gly Thr Gly Ser Thr Ile Ser Leu Leu Ile Ala Ile
 305 310 315 320
 Phe Ile Phe Ser Arg Gln Lys Ser Ala Lys Gln Val Ala Arg Leu Ser
 325 330 335
 Leu Ala Pro Gly Leu Phe Asn Ile Asn Glu Pro Val Ile Phe Gly Leu
 340 345 350
 Pro Ile Val Phe Asn Leu Pro Leu Met Ile Pro Phe Val Leu Leu Pro
 355 360 365
 Ala Ile Gly Ile Tyr Phe Ala Trp Leu Cys Thr Thr Leu Gly Phe Met
 370 375 380
 Ser Arg Cys Val Val Met Ile Pro Trp Thr Thr Pro Pro Ile Leu Ser
 385 390 395 400
 Ala Trp Leu Ala Thr Ala Gly Asp Trp Arg Ala Val Val Val Gln Leu
 405 410 415
 Ala Ile Ile Val Phe Gly Val Phe Phe Tyr Leu Pro Phe Leu Lys Val
 420 425 430
 Ala Glu Arg Val Ala Leu Lys Asn Ser Gly Thr Glu His
 435 440 445

<210> 7032

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 7032

Thr Met Ala Glu Asp Gln Asn Pro Pro Ala Asp Glu Gln Asp Gln Asn
 1 5 10 15
 Asn Asn Glu Arg Lys Arg Pro Gly Lys Lys Pro Leu Ile Ile Leu Gly
 20 25 30
 Ile Val Val Ile Val Met Val Ile Val Ala Leu Val Trp Trp Phe Leu
 35 40 45
 Thr Arg Asn Glu Glu Thr Thr Asp Asp Ala Phe Thr Asp Gly Asp Val
 50 55 60
 Val Thr Ile Ala Pro Lys Thr Ala Gly Tyr Val Thr Glu Leu Arg Val
 65 70 75 80
 Arg Asp Asn Gln Arg Val Lys Lys Gly Asp Val Leu Val Val Ile Asp
 85 90 95
 Pro Arg Asp Thr Thr Ala Gln Arg Asp Gln Ala Gln Ala Gln Leu Gly
 100 105 110
 Leu Ala Leu Ala Gln Leu His Gln Ala Gln Ala Gln Leu Ala Leu Ser
 115 120 125
 Lys Val Gln Tyr Pro Ala Gln Arg Asp Glu Ala Lys Ala Gln Val Leu
 130 135 140
 Lys Ala Gln Ala Asp Met Ala Asn Ala Gln Ala Glu Tyr Arg Arg Gln
 145 150 155 160
 Arg Gly Val Asp Pro Arg Ala Thr Thr Gln Ser Ile Asp Ala Ala
 165 170 175
 Asn Ala Gln Leu Arg Ser Ala Gln Ala Gly Leu Ala Ser Ala Gln Ala
 180 185 190
 Gln Leu Glu Val Ala Glu Gln Val Gln Leu Gln Ile Arg Gln Gln Glu
 195 200 205
 Thr Asn Val Glu Ala Arg Glu Arg Gln Val Asp Gln Ala Arg Ala Gln
 210 215 220
 Leu Glu Thr Ala Asn Leu Asn Leu Ser Tyr Thr Glu Val Arg Ala Pro
 225 230 235 240
 Phe Asp Gly Phe Val Thr Lys Arg Asn Val Gln Pro Gly Thr Leu Val
 245 250 255
 Gln Ala Gly Thr Ala Leu Phe Ser Leu Val Ser Pro Asn Val Trp Val
 260 265 270
 Val Ala Asn Phe Lys Glu Ser Gln Leu Glu Arg Met Lys Pro Gly Asp
 275 280 285

Lys Val Thr Val Ser Val Asp Ala Trp Pro Asp Met Glu Leu Glu Gly
 290 295 300
 His Ile Asp Ser Ile Gln Gly Ser Gly Ser Arg Phe Ser Ala Phe
 305 310 315 320
 Pro Ser Glu Asn Ala Thr Gly Asn Phe Val Lys Ile Val Gln Arg Val
 325 330 335
 Pro Val Lys Ile Val Ile Asp Lys Gly Leu Asp Pro Asn Lys Pro Leu
 340 345 350
 Pro Leu Gly Leu Ser Val Glu Pro Lys Val Thr Val Glu
 355 360 365

<210> 7033

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7033

Gly Val Ser Cys Ala Asp Ala Ser Thr Ser Lys Asn Gln Asn Phe Ala
 1 5 10 15
 Thr Phe Ile Glu Arg Leu Phe Arg Asp Asn Thr Met Thr Lys Tyr Arg
 20 25 30
 Leu Ser Asn Glu Thr Arg Leu Trp Arg Trp Gln Asp Gly Ser Thr Pro
 35 40 45
 Cys Thr Thr Pro Leu Arg Gln Ile Ile Ala Val Lys Asp Phe Asn Asp
 50 55 60
 Val Thr Ser Gly Thr Lys Gly Gly Trp Val Glu Asp Glu His Ala Leu
 65 70 75 80
 Ala Gln Asp Gly Asp Cys Trp Val Tyr Asp Glu Asn Ser Val Val Phe
 85 90 95
 Ala Gly Ala Arg Ile Ser Gly Asn Ala Arg Leu Thr Gln Pro Cys Ile
 100 105 110
 Val Ser His Arg Ala His Val Gly Gly Asn Gly Trp Leu Asp Ala Ala
 115 120 125
 Glu Val Ser His Gly Ala Val Ile Ser Asp Asn Val Thr Ile Gln His
 130 135 140
 Ser Thr Val Arg Gly Glu Cys Arg Ile Ala Gly Asp Ala Arg Val Leu
 145 150 155 160
 His Asn Ser Leu Val Ile Ala Ala Lys Gly Leu Thr Pro Asp Arg Glu
 165 170 175
 Gln Ile Leu Gln Ile Tyr Asp Arg Ala Thr Val Ser Gln Ser Arg Ile
 180 185 190
 Val His Gln Ala Gln Ile Tyr Gly Asp Ala Met Val Thr Trp Ala Phe
 195 200 205
 Val Glu His Arg Ala Glu Val Phe Asp Arg Ala Ile Leu Glu Gly Asn
 210 215 220
 Ala Leu Asn Asn Val Trp Val Cys Asp Cys Ala Lys Val Tyr Gly Asn
 225 230 235 240
 Ala Arg Leu Leu Ala Gly Leu Glu Asp Asp Ala Ile Pro Thr Val Arg
 245 250 255
 Tyr Ser Ser Gln Val Ala Glu Asn Ala Leu Val Glu Gly Asn Cys Val
 260 265 270
 Ile Lys His His Val Leu Ile Gly Gly Glu Ala Trp Leu Arg Gly Gly
 275 280 285
 Pro Ile Leu Ile Asp Asp Lys Val Val Ile Gln Gly Arg Ala Arg Ile
 290 295 300
 Ser Gly Asp Val Leu Ile Glu His Gln Val Glu Ile Thr Asp Asp Ala
 305 310 315 320
 Val Ile Glu Ala Leu Glu Gly Glu Ser Ile His Val Arg Gly Ala Lys
 325 330 335
 Val Ile Asn Gly Asp Thr Arg Ile Thr Arg Thr Pro Leu Leu Gly Ala
 340 345 350

Leu

<210> 7034

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7034

Lys	Ile	Asn	Thr	Glu	Gly	Asn	Thr	Met	Gly	Ser	Glu	Leu	Ser	Arg	Gln
1				5					10					15	
Leu	Thr	Gln	Arg	Phe	Phe	Arg	Tyr	Leu	Ala	Ile	Thr	Ser	Gln	Ser	Asp
		20						25					30		
Pro	Lys	Val	Lys	Thr	Leu	Pro	Ser	Thr	Pro	Gly	Gln	His	Asp	Met	Ala
		35					40					45			
Arg	Glu	Leu	Ala	Lys	Glu	Leu	Lys	Thr	Leu	Gly	Leu	Asp	Asp	Ile	Val
	50					55					60				
Ile	Asp	Glu	Phe	Ala	Thr	Val	Thr	Ala	Val	Lys	Lys	Gly	Asn	Val	Pro
65					70					75					80
Gly	Ala	Pro	Arg	Ile	Gly	Phe	Ile	Thr	His	Ile	Asp	Thr	Val	Asp	Val
				85					90					95	
Gly	Leu	Ser	Pro	Asp	Ile	His	Pro	Gln	Ile	Leu	Thr	Phe	Thr	Gly	Asp
			100					105						110	
Asp	Leu	Cys	Leu	Asn	Lys	Glu	Lys	Asp	Ile	Trp	Leu	Arg	Val	Lys	Glu
		115					120					125			
His	Pro	Glu	Ile	Leu	Ala	Tyr	Pro	Asp	Glu	Glu	Ile	Ile	Phe	Ser	Asp
	130					135					140				
Gly	Thr	Ser	Val	Leu	Gly	Ala	Asp	Asn	Lys	Ala	Ala	Val	Thr	Val	Val
145					150					155					160
Met	Thr	Val	Leu	Glu	Asn	Leu	Thr	Ala	Glu	His	Asn	His	Gly	Asp	Ile
				165					170					175	
Val	Val	Ala	Phe	Val	Pro	Asp	Glu	Glu	Ile	Gly	Leu	Cys	Gly	Ala	Lys
			180					185					190		
Ala	Leu	Asp	Leu	Lys	Arg	Phe	Asp	Val	Asp	Phe	Ala	Trp	Thr	Ile	Asp
		195					200					205			
Cys	Cys	Glu	Leu	Gly	Glu	Ile	Val	Tyr	Glu	Asn	Phe	Asn	Ala	Ala	Ala
	210					215					220				
Ala	Glu	Ile	Arg	Phe	Thr	Gly	Val	Thr	Ala	His	Pro	Met	Ser	Ala	Lys
225					230					235					240
Gly	Val	Leu	Val	Asn	Pro	Leu	Leu	Met	Ala	Thr	Asp	Phe	Ile	Ser	His
				245					250					255	
Phe	Asp	Arg	Gln	Gln	Thr	Pro	Glu	Cys	Thr	Glu	Gly	Arg	Glu	Gly	Tyr
			260					265					270		
Ile	Trp	Phe	Asn	Gly	Ile	Gln	Ala	Gly	Gln	Asn	Glu	Ala	Ile	Leu	Lys
		275					280					285			
Ala	Asn	Ile	Arg	Asp	Phe	Asp	Lys	Asp	Gly	Phe	Ala	Ala	Arg	Lys	Gln
	290					295					300				
His	Ile	Ala	Asp	Val	Ala	Ala	Gln	Ile	Ala	Ala	Gln	His	Pro	Thr	Ala
305					310					315					320
Asn	Val	Glu	Tyr	Arg	Ile	Glu	Asp	Thr	Tyr	Ser	Asn	Ile	Ser	Asn	Ala
				325					330					335	
Ile	Gly	Glu	Asp	Arg	Arg	Ala	Ile	Asp	Leu	Met	Phe	Glu	Ala	Met	Glu
			340					345					350		
Ser	Leu	Gly	Ile	Thr	Pro	Lys	Pro	Ile	Pro	Met	Arg	Gly	Gly	Thr	Asp
		355					360					365			
Gly	Ala	Ala	Leu	Ser	Ala	Lys	Gly	Leu	Leu	Thr	Pro	Asn	Phe	Phe	Thr
	370					375					380				
Gly	Ala	His	Asn	Phe	His	Ser	Lys	Phe	Glu	Phe	Leu	Pro	Leu	Ser	Ser
385					390					395					400
Phe	Glu	Ala	Ser	Cys	Arg	Thr	Ala	Leu	Gln	Leu	Cys	Leu	Leu	Ala	Ala
				405					410					415	

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Arg

<210> 7035

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 7035

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Asp Met Ser Arg Arg Ser Phe Pro Leu Asn Ala Val Glu Thr Phe Ile
1      5      10      15
Val Thr Ala Arg His Leu Asn Leu Thr His Ala Ala Lys Glu Leu Cys
      20      25      30
Leu Thr Gln Gly Ala Val Ser Arg Lys Ile Ala Ser Leu Glu Ser Trp
      35      40      45
Phe Gly Phe Pro Leu Phe Glu Arg His Ala Arg Gly Leu Arg Leu Ser
      50      55      60
Ser Gln Gly Ser Ala Leu Leu Pro Glu Leu Gln Ser Ala Phe Glu His
65      70      75      80
Leu Leu Asn Val Ala Glu Gln Ala Arg Thr His Gln Thr Val Ile Arg
      85      90      95
Leu Lys Ala Pro Thr Cys Ala Met Arg Trp Leu Val Pro Arg Leu Leu
      100     105     110
Gln Val Glu Arg Glu Gln Pro Glu Leu Gln Ile Ala Leu Thr Thr Thr
      115     120     125
Thr Asp His Asn Val Asn Phe Lys Thr Glu Ser Cys Asp Ala Ala Ile
130     135     140
Val Phe Gly Thr His Met Ser Ala Gly Asp Leu Leu Phe Glu Glu Ala
145     150     155     160
Leu Thr Pro Val Met Ser Pro Leu Arg Ala Gly Ser Ala Leu Glu Ala
      165     170     175
Leu Thr Phe Leu His Pro Thr Arg Asp Lys Thr Asp Trp Thr Leu Trp
      180     185     190
Leu Ala Lys Gln Pro Gly Pro Pro Pro Ala Met Leu Lys Asn Gln His
      195     200     205
Phe Glu Thr Met Asp Leu Ala Ile Thr Ala Ala Ile Gln Gly Leu Gly
210     215     220
Ile Ala Ile Ala Asp Glu Thr Leu Val Glu Glu Asp Val Arg Ala Gly
225     230     235     240
Arg Leu Met Arg Pro Phe Asp Thr Ser Ile Lys Thr Gly Ala Ser Tyr
      245     250     255
Arg Leu Val Leu Arg Asp Ala Pro Gly Pro Glu Asn Gly Leu Asp Ala
      260     265     270
Phe Arg Ala Cys Leu Leu Ser Arg Gly
      275     280

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<210> 7036

<211> 508

<212> PRT

<213> Enterobacter cloacae

<400> 7036

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Trp Lys Lys Lys Val Gly Met Glu Asn Pro Ser Ala Pro Val Val Glu
1      5      10      15
Thr Arg Gln Gly Ala Leu Ile Gly Phe Thr Glu Gly Asp Thr His Val
      20      25      30
Trp Cys Gly Ile Pro Tyr Ala Ala Pro Pro Val Gly Pro Trp Arg Trp
      35      40      45
Arg Ser Pro Arg Pro Pro Ala Arg Trp Asp Gly Val Arg Pro Ala Thr
50      55      60
Ala Phe Ser Ala Ser Ser Trp Gln Ser Ser Glu Ser Cys Gln Glu Leu

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65					70					75				80
Gly	Gly	Gly	Asp	Pro	Gly	Gln	Phe	Ser	Glu	Asp	Cys	Leu	Tyr	Leu
				85					90					95
Val	Trp	Ser	Pro	Val	Ala	Arg	Ala	Ala	Pro	Leu	Pro	Val	Met	Val
			100					105					110	Trp
Leu	His	Gly	Gly	Gly	Phe	Thr	Leu	Gly	Ala	Gly	Gly	Leu	Pro	Pro
		115					120					125		Tyr
Asn	Gly	Arg	Ala	Leu	Ala	Lys	Arg	Gly	Thr	Val	Val	Val	Thr	Ile
		130				135					140			Asn
Tyr	Arg	Leu	Gly	His	Leu	Gly	Phe	Phe	Ala	His	Pro	Ala	Leu	Glu
145					150					155				Gly
Glu	Glu	Glu	Arg	Val	Val	His	Asn	Phe	Ala	Leu	Leu	Asp	Gln	Ile
				165					170					Gln
Ala	Leu	Glu	Trp	Val	Arg	Asp	Asn	Ile	Ala	Ala	Phe	Gly	Gly	Asp
			180					185					190	Pro
Glu	Asn	Ile	Thr	Val	Phe	Gly	Glu	Ser	Ala	Gly	Ala	Arg	Ser	Val
		195					200					205		Leu
Ser	Leu	Met	Ala	Ser	Pro	Leu	Ala	Gly	Gly	Leu	Phe	His	Lys	Ala
		210				215					220			Ile
Val	Gln	Ser	Gly	Tyr	Thr	Leu	Pro	Asp	Thr	Pro	Arg	Glu	Gln	Ala
225					230					235				Met
His	Lys	Gly	Glu	Ala	Ile	Ala	Ala	His	Phe	Gly	Leu	His	Asn	Ala
				245					250					Thr
Ala	Glu	Gln	Leu	Arg	Ala	Ile	Pro	Pro	Glu	Ala	Phe	Trp	Pro	Leu
			260				265						270	Thr
Ser	Pro	Leu	Asn	Ile	Ala	Pro	Ala	Pro	Ile	Val	Gly	Asp	Cys	Val
		275				280						285		Leu
Pro	Glu	Ala	Met	Leu	Asp	Val	Phe	Phe	Ala	Ala	Arg	Gln	His	Pro
		290				295					300			Val
Pro	Val	Met	Ile	Gly	Ser	Asn	Ser	Asp	Glu	Ala	Ser	Val	Met	Ser
305				310					315					Val
Phe	Gly	Val	Asp	Leu	Ala	Gly	Gln	Ile	Gln	Lys	Leu	Arg	Arg	Glu
			325						330					Arg
Arg	Phe	Gly	Leu	Gly	Leu	Ile	Lys	Leu	Leu	Tyr	Pro	Gly	Val	Lys
			340				345						350	Gly
Asp	Glu	Glu	Leu	Gly	Arg	Gln	Val	Cys	Arg	Asp	Met	Ala	Phe	Thr
		355					360					365		Thr
Met	Gly	Tyr	Val	Val	Met	Gln	Ala	Gln	Gln	Arg	Ala	Gly	Gly	Leu
		370				375					380			Cys
Trp	Arg	Tyr	Trp	Phe	Asp	Tyr	Val	Ala	Glu	Ala	Glu	His	Ala	Thr
385					390				395					Tyr
Ile	Asn	Gly	Ala	Trp	His	Gly	Asn	Glu	Val	Pro	Tyr	Val	Phe	Asp
			405					410						Thr
Leu	Gly	Gln	Val	Glu	Pro	Ser	Arg	Gln	Tyr	Val	Asn	Glu	Arg	Asp
			420					425					430	Leu
Ala	Phe	Ala	Ala	Gln	Val	Ala	Asp	Tyr	Trp	Val	Ser	Phe	Ala	Arg
		435					440					445		Asp
Ala	Gly	Ala	Arg	Asp	Ser	Leu	Ala	Gly	Pro	Thr	Arg	Trp	Pro	Ala
		450				455					460			Cys
Arg	Lys	Gly	Arg	Asp	Val	Leu	Leu	Arg	Ile	Gly	Val	Asn	Lys	His
465					470				475					Ala
Gly	Phe	Arg	Leu	Glu	Asn	Arg	Phe	Met	Arg	Ala	Arg	Met	Ser	Leu
			485						490					Phe
Lys	Arg	Val	Met	Lys	His	His	Val	Ser	Leu	Asp				
			500					505						

<210> 7037

<211> 400

<212> PRT

<213> Enterobacter, cloacae

<400> 7037

Leu Cys Ile His His Glu Lys Gly Gln Arg Met Thr Leu Lys Thr Pro
 1 5 10 15
 Val Gln Thr Arg Ser Lys Leu Pro Asp Val Gly Thr Thr Ile Phe Thr
 20 25 30
 Val Ile Gly Gln Leu Ser Ala Arg His Asn Ala Ile Asn Leu Ser Gln
 35 40 45
 Gly Ala Pro Asn Phe Ser Cys Asp Pro Lys Leu Ile Ser Gly Val Thr
 50 55 60
 Arg Ala Met Glu Ala Gly Tyr Asn Gln Tyr Ala Ser Met Thr Gly Leu
 65 70 75 80
 Gln Pro Leu Arg Glu Arg Ile Ala Asp Lys Ile Ala Thr Leu Tyr Gly
 85 90 95
 Thr His Tyr Asp Pro Ala Ser Glu Val Leu Val Thr Ala Ser Ala Ser
 100 105 110
 Glu Gly Leu Tyr Ser Ala Ile Ser Gly Leu Val His Pro Gly Asp Glu
 115 120 125
 Val Ile Tyr Phe Glu Pro Ser Phe Asp Ser Tyr Ala Pro Ile Val Arg
 130 135 140
 Leu Gln Gly Ala Thr Pro Ile Ala Ile Lys Leu Thr Val Pro Asp Phe
 145 150 155 160
 Ala Val Asn Trp Asp Glu Val Arg Ala Ala Ile Thr Pro Arg Thr Arg
 165 170 175
 Met Ile Ile Val Asn Thr Pro His Asn Pro Ser Gly Gln Val Phe Ser
 180 185 190
 Ala Ala Asp Leu His Gln Leu Ala Ala Leu Thr Arg His Thr Asp Ile
 195 200 205
 Ile Ile Leu Ser Asp Glu Val Tyr Glu His Val Val Phe Asp Gly Glu
 210 215 220
 Pro His His Gly Met Ala Thr His Pro Gln Leu Ala Glu Arg Ser Val
 225 230 235 240
 Ile Ile Ser Ser Phe Gly Lys Thr Tyr His Val Thr Gly Trp Arg Val
 245 250 255
 Gly Tyr Cys Val Ala Pro Ala Glu Leu Met Asp Glu Ile Cys Lys Val
 260 265 270
 His Gln Phe Leu Met Phe Ser Ala Asp Thr Pro Met Gln Tyr Ala Phe
 275 280 285
 Ala Glu His Met Thr Asp Pro Gln Thr Trp Leu Ser Leu Ala Ala Phe
 290 295 300
 Tyr Gln Arg Lys Arg Asp Leu Leu Gln Ser Leu Leu Ala Asp Ser Pro
 305 310 315 320
 Phe Arg Leu Leu Pro Ser Ala Gly Ser Phe Phe Leu Leu Ala Asp Tyr
 325 330 335
 Ser Gly Phe Ser Asp Glu Arg Asp Ser Glu Met Val Lys Arg Leu Ile
 340 345 350
 Val Glu Tyr Gly Val Ala Thr Ile Pro Leu Ser Ala Phe Tyr Ala Asp
 355 360 365
 Gly Thr Asp Asn Lys Leu Ile Arg Leu Ser Phe Ala Lys Asp Glu Ala
 370 375 380
 Thr Leu Arg Ala Gly Ala Gln Ala Leu Cys Arg Val Thr Pro Arg
 385 390 395 400

<210> 7038

<211> 582

<212> PRT

<213> Enterobacter cloacae

<400> 7038

Pro Phe Leu Phe Arg Leu Cys Val Leu Ser Cys Arg His Phe Ala Ala
 1 5 10 15
 Arg Glu Thr His Ser His Asp His Lys Asp Val Phe Ser Gly Met Asn

			20					25					30			
Arg	Arg	Arg	Phe	Leu	Lys	Gly	Ser	Leu	Ala	Met	Ala	Ala	Leu	Ser	Gly	
		35					40					45				
Thr	Ser	Gly	Leu	Ala	Ser	Leu	Phe	Ser	Gln	Ala	Ala	Tyr	Ala	Ala	Asp	
	50					55					60					
Ser	Asp	Ile	Ala	Asp	Gly	Gln	Ser	Arg	Arg	Phe	Asp	Phe	Ser	Val	Leu	
65					70					75					80	
Gln	Ser	Met	Ala	His	Asp	Leu	Ala	Lys	Thr	Ala	Trp	Gly	Gly	Ala	Pro	
				85					90					95		
Arg	Pro	Leu	Pro	Glu	Thr	Leu	Ala	Thr	Met	Thr	Pro	Gln	Ala	Tyr	Asn	
			100					105					110			
Ala	Ile	Arg	Tyr	Asp	Glu	Lys	Gln	Ser	Leu	Trp	Asn	Asn	Ile	Glu	Gly	
	115						120					125				
Arg	Gln	Leu	Asp	Ala	Gln	Phe	Phe	His	Met	Gly	Met	Gly	Phe	Arg	Arg	
	130					135					140					
Arg	Val	Arg	Met	Phe	Ser	Leu	Asp	Gln	Thr	Thr	Ser	Gln	Ala	Arg	Glu	
145					150					155					160	
Ile	His	Phe	Arg	Pro	Glu	Leu	Phe	Ser	Tyr	Gly	Asp	Thr	Gly	Val	Asp	
				165					170					175		
Thr	Lys	Gln	Leu	Glu	Gly	Gln	Ser	Asp	Leu	Gly	Phe	Ala	Gly	Phe	Arg	
			180					185					190			
Val	Phe	Lys	Ala	Pro	Glu	Leu	Ala	Arg	Arg	Asp	Ile	Val	Ser	Phe	Leu	
		195					200					205				
Gly	Ala	Ser	Tyr	Phe	Arg	Ala	Val	Asp	Asp	Thr	Tyr	Gln	Tyr	Gly	Leu	
	210					215					220					
Ser	Ala	Arg	Gly	Leu	Ala	Val	Asp	Thr	Phe	Thr	Asp	Thr	Pro	Glu	Glu	
225					230					235					240	
Phe	Pro	Asp	Phe	Thr	Ser	Phe	Trp	Phe	Glu	Thr	Val	Lys	Pro	Gly	Asp	
				245					250					255		
Thr	Thr	Phe	Thr	Val	Tyr	Ala	Leu	Leu	Asp	Ser	Pro	Ser	Ile	Thr	Gly	
			260					265					270			
Ala	Tyr	Lys	Phe	Val	Ile	His	Cys	Glu	Lys	Ser	Gln	Val	Ile	Met	Asp	
		275					280					285				
Val	Glu	Asn	His	Leu	Tyr	Ala	Arg	Lys	Asp	Ile	Lys	Gln	Leu	Gly	Ile	
	290					295					300					
Ala	Pro	Met	Thr	Ser	Met	Phe	Ser	Cys	Gly	Asn	Asn	Glu	Arg	Arg	Met	
305					310					315					320	
Cys	Asp	Thr	Ile	His	Pro	Gln	Ile	His	Asp	Ser	Asp	Arg	Leu	Ala	Met	
				325					330					335		
Trp	Arg	Gly	Asn	Gly	Glu	Trp	Ile	Cys	Arg	Pro	Leu	Asn	Asn	Pro	Gln	
			340					345					350			
Lys	Leu	Gln	Phe	Asn	Ala	Tyr	Leu	Asp	Lys	Asn	Pro	Lys	Gly	Phe	Gly	
		355					360					365				
Leu	Leu	Gln	Leu	Asp	Arg	Asp	Phe	Ser	His	Tyr	Gln	Asp	Val	Met	Gly	
	370					375				</						

Ala Lys Gln Val Glu Ile Leu Tyr Val Glu Pro Phe Asp Gly Tyr Arg
 515 520 525
 Ile Leu Phe Asp Trp Tyr Pro Thr Ser Asp Ser Thr Glu Pro Val Asp
 530 535 540
 Met Arg Leu Phe Leu Arg Cys Gln Gly Asp Ala Ile Ser Glu Thr Trp
 545 550 555 560
 Leu Tyr Gln Tyr Phe Pro Pro Ala Pro Asp Lys Arg Asn Tyr Val Asp
 565 570 575
 Asp Arg Ile Met Arg
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<210> 7039

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7039

Ser Leu Trp Val Cys Ala Gly Trp Arg Leu Arg Leu Thr Arg Pro Ala
 1 5 10 15
 Leu Asp Ala Phe Val Gly Arg Val Ser Val Ser Ala Thr Arg Gln Leu
 20 25 30
 Arg Gly Thr Met Ser Ser Glu Ile Pro Val Asn Gln Glu Ile Glu
 35 40 45
 Leu Arg Ala Val Glu Glu Arg Tyr Thr Thr Asp Leu His Asn Leu Val
 50 55 60
 Ile Lys Asn Lys Thr Trp Leu Gln Thr Ala Phe Asp Trp Ala Gln His
 65 70 75 80
 Val Gly Ser Glu Glu Asp Thr Arg Arg Asn Val Gln Ser Asn Gln Met
 85 90 95
 Leu His Gln Arg Gly Tyr Ala Lys Met Phe Leu Ile Phe Met Lys Asp
 100 105 110
 Glu Leu Val Gly Val Leu Ser Phe Asn Ala Ile Glu Pro Ala Asn Lys
 115 120 125
 Thr Gly Tyr Ile Gly Tyr Trp Leu Asp Glu Ala His Gln Gly Gln Gly
 130 135 140
 Ile Leu Ser Gln Ala Leu Gln Ala Phe Met Arg Tyr Tyr Val Glu Arg
 145 150 155 160
 Gly Glu Ile Arg Arg Phe Val Ile Lys Cys Arg Val Asp Asn Gln Ser
 165 170 175
 Ser Asn Arg Val Ala Gln Arg Asn Gly Phe Thr Leu Glu Gly Cys Leu
 180 185 190
 Arg Lys Ala Glu Met Leu Asn Gly Arg Tyr Asp Asp Val Asn Leu Tyr
 195 200 205
 Ala Arg Ile Phe Pro Leu
 210 215

<210> 7040

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7040

Gly Lys Ile Met Thr Val Asp Glu Asn Tyr Phe Thr Glu Lys Tyr Gly
 1 5 10 15
 Leu Thr Arg Thr His Ser Glu Val Leu Leu Ser Ala Asp Ile Val Lys
 20 25 30
 Pro Gly Lys Thr Leu Asp Leu Gly Cys Gly Asn Gly Arg Asn Ser Leu
 35 40 45
 Tyr Leu Ala Ala Asn Gly His Asp Val Thr Ala Trp Asp Lys Asn Pro
 50 55 60
 Met Ser Ile Asp Asn Ile Glu Arg Ile Lys Ala Ala Glu Gly Ile Ala

65					70					75					80
Asn	Leu	Gln	Thr	Ala	Ile	Lys	Asp	Leu	Asn	Asn	Leu	Thr	Phe	Asp	Gly
				85					90					95	
Glu	Tyr	Asp	Phe	Ile	Leu	Ser	Thr	Val	Val	Leu	Met	Phe	Leu	Glu	Ala
			100					105					110		
Asn	Thr	Ile	Pro	Gly	Leu	Ile	Ala	Asn	Met	Gln	Arg	Cys	Thr	Lys	Pro
			115				120					125			
Gly	Gly	Tyr	Asn	Leu	Ile	Val	Ala	Ala	Met	Asp	Thr	Glu	Asp	Tyr	Pro
			130			135					140				
Cys	Thr	Val	Gly	Phe	Pro	Phe	Ala	Phe	Lys	Pro	Gly	Glu	Leu	Ser	Asn
145					150					155					160
Tyr	Tyr	Glu	Gly	Trp	Glu	Leu	Ile	Lys	Tyr	Asn	Glu	Glu	Val	Gly	Glu
				165					170					175	
Leu	His	Arg	Thr	Asp	Ala	Asn	Gly	Asn	Arg	Ile	Lys	Leu	Arg	Phe	Ala
			180					185					190		
Thr	Met	Leu	Ala	Arg	Lys	Pro	Ala								
		195					200								

<210> 7041

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 7041

Ser	Val	Ser	Leu	Leu	Arg	Lys	Met	Arg	Arg	Arg	Tyr	Gly	Gln	Val	Pro
1				5					10					15	
Arg	Pro	Phe	Val	Gly	Leu	His	His	Val	Lys	Glu	Phe	Glu	Met	Lys	Leu
			20					25					30		
Arg	Ala	Leu	Val	Val	Gly	Met	Gly	Leu	Leu	Cys	Ser	Phe	Ser	Ser	Phe
		35					40					45			
Ala	Ala	Thr	Glu	Leu	Arg	Tyr	Gly	Leu	Glu	Ala	Glu	Tyr	Pro	Pro	Phe
		50				55					60				
Glu	Ser	Arg	Asn	Ala	Ser	Gly	Glu	Leu	Glu	Gly	Phe	Asp	Val	Glu	Leu
65				70						75					80
Gly	Asn	Ala	Ile	Cys	Lys	Ala	Ala	Ala	Leu	Lys	Cys	Ser	Trp	Val	Glu
				85					90					95	
Thr	Ser	Phe	Asp	Ala	Leu	Ile	Pro	Gly	Leu	Val	Ala	Lys	Lys	Phe	Asp
			100					105					110		
Ala	Ile	Asn	Ser	Ala	Met	Asn	Ile	Thr	Glu	Gln	Arg	Arg	Lys	Ser	Ile
		115					120					125			
Asp	Phe	Thr	Gln	Pro	Ile	Tyr	Arg	Ile	Pro	Ser	Gln	Leu	Val	Gly	Lys
		130				135					140				
Ala	Gly	Ser	Ala	Val	Glu	Ala	Thr	Pro	Glu	Gly	Leu	Lys	Gly	Lys	Thr
145					150					155					160
Ile	Gly	Val	Leu	Gln	Gly	Ser	Ile	Gln	Glu	Thr	Tyr	Ala	Lys	Glu	His
				165					170					175	
Trp	Glu	Lys	His	Gly	Val	Thr	Val	Val	Ser	Tyr	Lys	Asp	Gln	Asn	Met
			180					185					190		
Ala	Trp	Gly	Asp	Leu	Leu	Asn	Gly	Arg	Ile	Asp	Ala	Ser	Leu	Val	Met
		195					200					205			
Ser	Ala	Ala	Gly	Gln	Ala	Gly	Phe	Leu	Ser	Lys	Pro	Gln	Gly	Lys	Gly
		210				215					220				
Phe	Gly	Phe	Ile	Gly	Lys	Pro	Val	Ser	Asp	Asp	Thr	Ile	Leu	Gly	Ser
225					230					235					240
Gly	Ile	Gly	Phe	Gly	Leu	Arg	Lys	Gly	Asp	Glu	Ala	Thr	Lys	Lys	Gln
				245					250					255	
Leu	Asp	Ala	Ala	Ile	Asp	Lys	Val	Arg	Ala	Asp	Gly	Thr	Ile	Ala	Lys
			260					265					270		
Leu	Ala	Asp	Lys	Tyr	Phe	Pro	Gly	Ile	Asp	Val	Ser	Val	Lys		
		275					280						285		

<210> 7042
 <211> 336
 <212> PRT
 <213> Enterobacter cloacae

<400> 7042

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Pro Leu Lys Lys Met His Asn Leu Asn Gln Arg Val Leu Asn Leu Pro
1      5      10      15
Ala Gly Tyr Phe Gly Met Val Leu Gly Thr Ile Gly Met Gly Phe Ala
20
Trp Arg Tyr Ala Ser Thr Ile Trp Pro Val Thr Arg Trp Pro Gly Glu
35      40      45
Ile Leu Val Ala Leu Ala Val Ala Ile Trp Phe Leu Leu Ser Val Ala
50      55      60
Phe Leu Thr Arg Ala Val Arg Phe Pro His Ser Val Leu Ala Glu Met
65      70      75      80
Arg His Pro Val Met Ser Ser Phe Val Ser Leu Phe Pro Ala Thr Thr
85      90      95
Leu Leu Val Ala Ile Gly Phe Val Pro Trp Tyr Arg Pro Val Ala Leu
100      105      110
Gly Leu Phe Ser Val Gly Val Val Ile Gln Leu Ala Tyr Ala Ala Trp
115      120      125
Gln Ser Ala Gly Leu Trp Arg Gly Lys His Pro Glu Glu Ala Thr Thr
130      135      140
Pro Gly Leu Tyr Leu Pro Thr Val Ala Asn Asn Phe Ile Ser Ala Met
145      150      155      160
Ala Cys Gly Ala Leu Gly Phe His Asp Ala Gly Leu Val Phe Leu Gly
165      170      175
Ala Gly Val Phe Ser Trp Leu Ser Leu Glu Pro Val Ile Leu Gln Arg
180      185      190
Leu Arg Ser Ala Gly Glu Leu Pro Ala Ala Leu Arg Thr Ser Leu Gly
195      200      205
Ile Gln Leu Ala Pro Ala Leu Val Ala Cys Ser Ala Trp Phe Ser Val
210      215      220
Asn Gly Gly Glu Ala Asp Thr Phe Ala Lys Met Leu Phe Gly Tyr Gly
225      230      235      240
Leu Leu Gln Leu Leu Phe Met Leu Arg Leu Met Pro Trp Tyr Leu Ser
245      250      255
Gln Pro Phe Asn Ala Ser Phe Trp Ser Phe Ser Phe Gly Val Ser Ala
260      265      270
Leu Ala Thr Thr Gly Leu His Leu Gly Gln Ser Ser Pro Ser Gly Phe
275      280      285
Phe His Ala Leu Ala Val Pro Leu Phe Ile Phe Thr Asn Val Ile Ile
290      295      300
Ala Met Leu Leu Val Arg Thr Phe Ile Leu Leu Met Gln Gly Lys Leu
305      310      315      320
Leu Val Arg Ala Asp Lys Ala Leu Leu Met Gln Ser Glu Glu Lys
325      330      335

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<210> 7043
 <211> 533
 <212> PRT
 <213> Enterobacter cloacae

<400> 7043

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Met Met Lys Ser Thr Phe Thr Met Ile Thr Leu Ala Leu Ala Ala Leu
1      5      10      15
Thr Val Ser Ser Thr Val Ala Ala Lys Thr Leu Val Tyr Cys Ser Glu
20      25      30
Gly Ser Pro Glu Asn Phe Asn Pro Gln Leu Tyr Thr Ser Gly Thr Ser
35      40      45

```

Val 50	Asp 55	Ala 60	Ser 65	Ala 70	Val 75	Pro 80	Val 85	Tyr 90	Asn 95	Arg 100	Leu 105	Val 110	Asp 115	Phe 120	Lys 125
Pro 65	Gly 70	Thr 75	Thr 80	Glu 85	Leu 90	Val 95	Pro 100	Ser 105	Leu 110	Ala 115	Glu 120	Ser 125	Trp 130	Glu 135	Val 140
Ser 70	Glu 75	Asp 80	Gly 85	Lys 90	Val 95	Tyr 100	Thr 105	Phe 110	His 115	Leu 120	Arg 125	Lys 130	Gly 135	Val 140	Lys 145
Phe 75	His 80	Ser 85	Asn 90	Lys 95	Leu 100	Phe 105	Thr 110	Pro 115	Thr 120	Arg 125	Asp 130	Phe 135	Asn 140	Ala 145	Asp 150
Asp 80	Val 85	Ile 90	Phe 95	Ser 100	Phe 105	Met 110	Arg 115	Gln 120	Lys 125	Asp 130	Val 135	Asn 140	His 145	Pro 150	Tyr 155
His 85	Asn 90	Val 95	Ser 100	Asn 105	Gly 110	Ser 115	Tyr 120	Ser 125	Asn 130	Phe 135	Glu 140	Ser 145	Leu 150	Glu 155	Phe 160
Gly 90	Ser 95	Leu 100	Ile 105	Thr 110	Ala 115	Ile 120	Asp 125	Lys 130	Val 135	Asp 140	Asp 145	Arg 150	Thr 155	Val 160	Arg 165
Phe 95	Thr 100	Leu 105	Ala 110	His 115	Pro 120	Glu 125	Ala 130	Pro 135	Phe 140	Val 145	Ala 150	Asp 155	Leu 160	Ala 165	Trp 170
Tyr 100	Phe 105	Ala 110	Ser 115	Ile 120	Leu 125	Ser 130	Ala 135	Glu 140	Tyr 145	Ala 150	Asp 155	Ala 160	Met 165	Leu 170	Lys 175
Ala 105	Gly 110	Thr 115	Pro 120	Glu 125	Lys 130	Val 135	Asp 140	Met 145	Gln 150	Pro 155	Ile 160	Gly 165	Thr 170	Gly 175	Pro 180
Phe 110	Lys 115	Leu 120	Ser 125	Gln 130	Tyr 135	Gln 140	Lys 145	Asp 150	Ser 155	Arg 160	Ile 165	Leu 170	Phe 175	Thr 180	Ala 185
Phe 115	Pro 120	Asp 125	Tyr 130	Trp 135	Gln 140	Gly 145	Lys 150	Ser 155	Lys 160	Leu 165	Asp 170	Arg 175	Leu 180	Val 185	Phe 190
Thr 120	Ile 125	Thr 130	Pro 135	Asp 140	Ala 145	Ser 150	Val 155	Arg 160	Phe 165	Ala 170	Lys 175	Val 180	Glu 185	Lys 190	Asn 195
Glu 125	Cys 130	Gln 135	Val 140	Met 145	Pro 150	Phe 155	Pro 160	Asn 165	Pro 170	Ala 175	Asp 180	Leu 185	Pro 190	Arg 195	Met 200
Lys 130	Ala 135	Asn 140	Lys 145	Asp 150	Ile 155	Asn 160	Leu 165	Met 170	Ser 175	Lys 180	Ala 185	Gly 190	Leu 195	Asn 200	Thr 205
Gly 135	Phe 140	Leu 145	Ala 150	Phe 155	Asn 160	Thr 165	Gln 170	Lys 175	Pro 180	Pro 185	Leu 190	Asn 195	Asn 200	Val 205	Lys 210
Val 140	Arg 145	Gln 150	Ala 155	Leu 160	Ala 165	Met 170	Ala 175	Ile 180	Asn 185	Lys 190	Pro 195	Ala 200	Ile 205	Ile 210	Glu 215
Ala 145	Val 150	Phe 155	His 160	Gly 165	Thr 170	Gly 175	Thr 180	Ala 185	Ala 190	Lys 195	Asn 200	Leu 205	Leu 210	Pro 215	Pro 220
Gly 150	Val 155	Trp 160	Ser 165	Ala 170	Asp 175	Ser 180	Glu 185	Leu 190	Lys 195	Asp 200	Tyr 205	Asp 210	Tyr 215	Asp 220	Pro 225
Glu 155	Lys 160	Ala 165	Lys 170	Ala 175	Leu 180	Leu 185	Lys 190	Glu 195	Ala 200	Gly 205	Phe 210	Ala 215	Asn 220	Gly 225	Val 230
Ser 160	Ile 165	Asp 170	Leu 175	Trp 180	Ala 185	Met 190	Pro 195	Val 200	Gln 205	Arg 210	Pro 215	Tyr 220	Asn 225	Pro 230	Asn 235
Ala 165	Lys 170	Arg 175	Met 180	Ala 185	Glu 190	Met 195	Ile 200	Gln 205	Ala 210	Asp 215	Trp 220	Ala 225	Lys 230	Val 235	Gly 240
Val 170	Gln 175	Thr 180	Lys 185	Ile 190	Val 195	Thr 200	Tyr 205	Glu 210	Trp 215	Gly 220	Glu 225	Tyr 230	Leu 235	Lys 240	Arg 245
Val 175	Lys 180	Gly 185	Gly 190	Glu 195	His 200	Gln 205	Ala 210	Ala 215	Leu 220	Met 225	Gly 230	Trp 235	Thr 240	Thr 245	Ala 250
Thr 180	Gly 185	Asp 190	Pro 195	Asp 200	Asn 205	Phe 210</									

530

<210> 7044

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7044

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Leu Lys Lys Leu Lys Ile Asn Tyr Leu Leu Ile Gly Ile Val Thr Leu
1      5      10      15
Leu Leu Ala Val Ala Leu Trp Pro Ser Ile Pro Trp Phe Gly Lys Ala
20      25      30
Glu Asn Arg Ile Ala Ala Ile Gln Glu Arg Gly Glu Leu Arg Val Ser
35      40      45
Thr Leu Ser Ser Pro Leu Ile Tyr Asp Asp Ile Asn Gly Lys Thr Ile
50      55      60
Gly Leu Asp Tyr Glu Leu Ala Gln Leu Phe Ala Asp Tyr Leu Gly Val
65      70      75      80
Lys Leu Lys Val Thr Val Arg Gln Asn Ile Asn Gln Leu Phe Asp Asp
85      90      95
Leu Asp His Asp Arg Ala Asp Ile Leu Ala Ala Gly Leu Val Tyr Asn
100     105     110
Ser Glu Arg Ser Lys Asn Tyr Gln Pro Gly Pro Thr Tyr Tyr Ser Val
115     120     125
Ser Gln Gln Val Val Tyr Arg Val Gly Ser Leu Arg Pro Arg Ser Leu
130     135     140
Ala Asp Ile Thr Asp Gln Gln Leu Thr Ile Ala Pro Gly His Val Val
145     150     155     160
Ile Asp Asp Leu Arg Ala Leu Lys Glu Lys Lys Tyr Pro Asn Leu Ser
165     170     175
Trp Thr Val Asp Pro Lys Leu Gly Thr Thr Glu Leu Leu Glu Gln Val
180     185     190
Lys Asp Lys Lys Leu Ala Tyr Thr Ile Ala Asp Ser Val Ala Ile Ser
195     200     205
Leu Phe Gln Arg Val His Pro Glu Ile Ala Val Ala Leu Asp Val Thr
210     215     220
Asp Glu Gln Pro Val Thr Trp Phe Thr Gln Leu Asp Asp Asp Gln Thr
225     230     235     240
Val Ser Ala Ala Met Leu Asp Phe Phe Asn Ser Ile Asn Glu Asp Gly
245     250     255
Thr Leu Ala Ser Ser Thr Thr Gly Val Glu Gly Ala Ala His Ser Val
260     265     270
Arg Trp Gln
275

```

<210> 7045

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 7045

```

Pro Lys Arg Gly Ser Cys Gln Pro Ser Trp Val Lys Thr Thr Arg Ala
1      5      10      15
Phe Arg Ile Val Glu Lys Thr Pro Arg Ser Ala Leu Ile Thr Ser Phe
20      25      30
Glu Phe Glu Pro Val Asp Gly Gln Pro Val Ala Asp Tyr Gln Pro Gly
35      40      45
Gln Tyr Leu Gly Val Trp Leu Lys Pro Glu Gly Phe Pro His Gln Glu
50      55      60
Ile Arg Gln Tyr Ser Leu Thr Arg Lys Pro Asp Gly Lys Gly Tyr Arg
65      70      75      80

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Ile Ala Val Lys Arg Glu Glu Gly Gly Gln Val Ser Asn Trp Leu His
85 90 95
Asn Glu Ala Ser Val Gly Asp Val Val His Leu Ala Ala Pro Ala Gly
100 105 110
Asp Phe Phe Met Ala Val Glu Thr Asn Thr Pro Val Thr Leu Ile Ser
115 120 125
Ala Gly Val Gly Gln Thr Pro Met Leu Ala Met Leu Asp Thr Leu Ala
130 135 140
Lys Ala Asn His Ser Ala Gln Val Asn Trp Phe His Ala Ala Glu Asn
145 150 155 160
Gly Asp Val His Ala Phe Ala Asp Glu Val Lys Ala Leu Gly Ala Gly
165 170 175
Leu Pro His Phe Thr Ala His Thr Trp Tyr Arg Ser Pro Thr Glu Ala
180 185 190
Asp Arg Ala Ala Ala Arg Phe Asp Ser Glu Gly Leu Met Asn Leu Gly
195 200 205
Gln His Glu Gly Ala Phe Ser Ala Pro Gly Met Gln Phe Tyr Val Cys
210 215 220
Gly Pro Val Ala Phe Met Gln Tyr Ala Ala Lys Gln Leu Val Asp Leu
225 230 235 240
Gly Val Asn Lys Asp Asn Ile His Tyr Glu Cys Phe Gly Pro His Lys
245 250 255
Val Leu

<210> 7046

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7046

Ile Ala Met Gly Ser Gly Asn Asn Ala His Val Asp Ile Asp Ile Ala
1 5 10 15
Val Ala Ala Lys Arg Thr His Phe Pro Leu Leu Gln His Ala Gln Gln
20 25 30
Phe Asp Leu Gln Arg Arg Gly His Ile Ala Asn Phe Ile Lys Glu Gln
35 40 45
Arg Ala Pro Leu Cys Arg Leu Glu Gln Pro Phe Thr Ala Ala His Arg
50 55 60
Ala Gly Lys Gly Ala Ala Gly Met Ala Glu Glu Leu Arg Leu Lys Gln
65 70 75 80
Leu Phe Arg Gln Arg Ala Thr Val Asp Gly Asn Lys Gly Ile Phe Thr
85 90 95
Ala Trp Ala Gly Val Val Asp Arg Leu Gly Gln Asp Leu Phe Pro Gly
100 105 110
Pro Ala Leu Ala Val Asp Gln His Ala Asn Val Gly Leu Arg His His
115 120 125
Pro Arg Leu Phe Gln Gln Ala Gln His His Arg Ala Thr Arg His Asp
130 135 140
Gly Phe Thr Pro Ala Val Val Ala Gly Trp Arg Arg Val Leu Lys Ser
145 150 155 160
Ala Val Asp Arg Phe Ile Glu Gly Val Phe Ile His Arg Phe Gly Glu
165 170 175
Glu Ala Glu Tyr Pro Leu Leu Arg Arg Gly His Arg Ile Arg Asn Arg
180 185 190
Ser Val Ser Gly Glu Asp Asn His Arg His Pro Gly Leu Leu Leu
195 200 205
Asp Leu Arg Glu Gln Leu Gln Ala Ile His Phe Ile His Ala Gln Ile
210 215 220
Ala Asp His Gln Ile Asp Phe Leu Ala Ala Glu His Phe Gln Pro Leu
225 230 235 240

```
<210> 7047
<211> 495
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Ala	Asp	Ser	Val 5	Thr	Leu	Ser	Ser	Asn 10	Pro	Asp	Asp	Glu	Ser 15	Asn
Val	Leu	Lys	Arg	Trp	Pro	Ala	Phe	Pro	Arg	Ser	Leu	Arg	Gln	Leu	Val
			20					25					30		
Met	Met	Ala	Phe	Leu	Leu	Ile	Leu	Leu	Pro	Leu	Leu	Val	Leu	Ala	Trp
		35					40					45			
Gln	Ala	Trp	Gln	Ser	Leu	Asn	Ala	Leu	Ser	Ala	Gln	Ala	Ala	Leu	Thr
	50					55					60				
Asn 65	Arg	Thr	Thr	Leu	Ile 70	Asp	Ala	Arg	Arg	Ser	Glu	Ala	Met	Thr	Asn 80
Ala	Ala	Leu	Glu	Met 85	Glu	Arg	Ser	Tyr	Arg	Gln	Tyr	Cys	Val	Leu	Asp
				100					90					95	
Asp	Arg	Thr	Leu	Glu	Arg	Val	Tyr	Gln	Asn	Gln	Arg	Lys	Arg	Tyr	Ser
			115					105				110			
Glu	Met	Leu	Asp	Ala	His	Ala	Gly	Val	Leu	Pro	Asp	Asp	Lys	Leu	Tyr
		115					120					125			
Gln	Ala	Leu	Arg	Gln	Asp	Leu	Asn	Asp	Leu	Ala	Arg	Leu	Gln	Cys	Lys
	130					135					140				
Asn 145	Ser	Gly	Pro	Asp	Ala	Ala	Ala	Ala	Ala	Arg	Leu	Glu	Ala	Phe	Ala
				150						155				160	
Asn	Ala	Asn	Thr	Glu	Met	Val	Gln	Ser	Thr	Arg	Thr	Val	Ile	Phe	Ser
				165					170					175	
Arg	Gly	Gln	Gln	Leu	Gln	Gln	Glu	Ile	Ala	Glu	Arg	Gly	Gln	Phe	Phe
			180					185					190		
Gly	Trp	Gln	Ala	Leu	Val	Leu	Phe	Leu	Val	Ser	Leu	Gly	Leu	Val	Leu
		195					200					205			
Leu	Phe	Thr	Arg	Met	Ile	Ile	Gly	Pro	Val	Lys	Gly	Ile	Gln	Arg	Met
	210					215					220				
Ile 225	Asn	Arg	Leu	Gly	Glu	Gly	Lys	Ser	Leu	Gly	Asp	Thr	Val	Val	Phe
				230						235				240	
Lys	Gly	Pro	Arg	Glu	Leu	Arg	Ser	Val	Gly	Gln	Arg	Ile	Ile	Trp	Leu
				245					250					255	
Ser	Glu	Arg	Leu	Ala	Trp	Leu	Glu	Ser	Gln	Arg	His	Gln	Phe	Leu	Arg
			260					265					270		
His	Ile	Ser	His	Glu	Leu	Lys	Thr	Pro	Leu	Ala	Ser	Met	Arg	Glu	Gly
		275					280					285			
Thr	Glu	Leu	Leu	Ala	Asp	Glu	Val	Ala	Gly	Pro	Leu	Ser	Pro	Glu	Gln
						295					300				
Lys 305	Glu	Ile	Val	Ala	Ile	Leu	Asp	Ala	Ser	Ser	Arg	Asn	Leu	Gln	Lys
					310					315				320	
Leu	Ile	Glu	Gln	Leu	Leu	Asp	Tyr	Asn	Arg	Lys	Leu	Ala	Asp	Gly	Ala
				325					330					335	
Val	Val	Leu	Glu	Ser	Val	Glu	Ile	Glu	Pro	Leu	Val	Asp	Met	Val	Ile
			340					345					350		
Ser	Ala	His	Ser	Leu	Pro	Ala	Arg	Ala	Lys	Met	Met	His	Thr	Gln	Val
		355													

Gly	Thr	Ile	Tyr	Ile	Arg	Ser	Asn	Asn	Asn	Gly	Ser	Arg	Val	Phe	Ile
				405					410					415	
Asp	Val	Ala	Asn	Thr	Gly	Ser	Pro	Ile	Pro	Asp	Asp	Glu	Lys	Thr	Met
			420					425					430		
Ile	Phe	Glu	Pro	Phe	Phe	Gln	Gly	Ser	His	Gln	Arg	Lys	Gly	Ala	Val
		435					440					445			
Lys	Gly	Ser	Gly	Leu	Gly	Leu	Ser	Ile	Ala	Arg	Asp	Cys	Ile	Arg	Arg
		450				455					460				
Met	Gln	Gly	Glu	Leu	Asn	Ile	Val	Ser	Asp	Glu	Arg	Ala	Asp	Val	Cys
465					470					475					480
Phe	Arg	Ile	Glu	Leu	Pro	Leu	Glu	Pro	Glu	Lys	Ser	Met	Lys		
				485					490					495	

<210> 7048

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7048

Gly	Pro	Thr	Met	Lys	Lys	Ile	Asp	Ala	Ile	Ile	Lys	Pro	Phe	Lys	Leu
1				5					10					15	
Asp	Asp	Val	Arg	Glu	Ala	Leu	Ala	Glu	Val	Gly	Ile	Thr	Gly	Met	Thr
			20					25					30		
Val	Thr	Glu	Val	Lys	Gly	Phe	Gly	Arg	Gln	Lys	Gly	His	Thr	Glu	Leu
		35					40					45			
Tyr	Arg	Gly	Ala	Glu	Tyr	Met	Val	Asp	Phe	Leu	Pro	Lys	Val	Lys	Ile
		50				55					60				
Glu	Ile	Val	Val	Ser	Asp	Glu	Ile	Val	Asp	Thr	Cys	Val	Asp	Thr	Ile
65					70					75					80
Ile	Arg	Thr	Ala	Gln	Thr	Gly	Lys	Ile	Gly	Asp	Gly	Lys	Ile	Phe	Val
				85					90					95	
Phe	Asp	Val	Ala	Arg	Val	Ile	Arg	Ile	Arg	Thr	Gly	Glu	Glu	Asp	Asp
			100					105						110	
Ala	Ala	Ile													
															115

<210> 7049

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7049

Asp	Ala	Glu	Thr	Arg	Gly	Cys	Glu	Ala	Met	Thr	Ser	Arg	Lys	Pro	Ala
1				5					10					15	
His	Leu	Leu	Leu	Val	Asp	Asp	Asp	Pro	Gly	Leu	Leu	Lys	Leu	Leu	Gly
			20					25					30		
Met	Arg	Leu	Val	Ser	Glu	Gly	Tyr	Ser	Val	Val	Thr	Ala	Glu	Ser	Gly
		35					40					45			
Gln	Glu	Gly	Leu	Lys	Val	Leu	Ser	Arg	Glu	Lys	Ile	Asp	Leu	Val	Ile
		50				55					60				
Ser	Asp	Leu	Arg	Met	Asp	Glu	Met	Asp	Gly	Leu	Gln	Leu	Phe	Thr	Glu
65					70					75					80
Ile	Gln	Lys	Gln	Gln	Pro	Gly	Met	Pro	Val	Ile	Ile	Leu	Thr	Ala	His
				85					90					95	
Gly	Ser	Ile	Pro	Asp	Ala	Val	Ala	Ala	Thr	Gln	Gln	Gly	Val	Phe	Ser
			100					105					110		
Phe	Leu	Thr	Lys	Pro	Val	Asp	Lys	Asp	Ala	Leu	Tyr	Lys	Ala	Ile	Asp
		115					120					125			
Ser	Ala	Leu	Glu	His	Ala	Ala	Pro	Ser	Gly	Asp	Asp	Gly	Trp	Arg	Glu
		130				135					140				
Ser	Ile	Val	Thr	Arg	Ser	Pro	Val	Met	Leu	Arg	Leu	Leu	Glu	Gln	Ala

145					150				155				160
Arg	Met	Val	Ala	Gln	Ser	Asp	Val	Ser	Val	Leu	Ile	Asn	Gln
				165					170				175
Gly	Thr	Gly	Lys	Glu	Ile	Leu	Ala	Gln	Ala	Ile	His	Asn	Ala
			180					185				190	
Arg	Ser	Lys	Asn	Ala	Phe	Ile	Ala	Ile	Asn	Cys	Gly	Ala	Leu
		195					200				205		Pro
Gln	Leu	Leu	Glu	Ser	Glu	Leu	Phe	Gly	His	Ala	Arg	Gly	Ala
	210				215					220			Phe
Gly	Ala	Val	Ser	Ser	Arg	Glu	Gly	Leu	Phe	Gln	Ala	Ala	Glu
	225				230				235				Gly
Thr	Leu	Phe	Leu	Asp	Glu	Ile	Gly	Asp	Met	Pro	Ala	Pro	Leu
				245				250					Gln
Lys	Leu	Leu	Arg	Val	Leu	Gln	Glu	Arg	Lys	Val	Arg	Pro	Leu
			260					265					Gly
Asn	Arg	Asp	Ile	Asp	Ile	Asn	Val	Arg	Ile	Ile	Ser	Ala	Thr
		275					280					285	His
Asp	Leu	Pro	Lys	Val	Met	Ala	Arg	Asn	Glu	Phe	Arg	Glu	Asp
	290					295					300		Leu
Tyr	Arg	Leu	Asn	Val	Val	Asn	Leu	Lys	Ile	Pro	Ala	Leu	Ala
	305				310					315			Glu
Ala	Glu	Asp	Ile	Pro	Leu	Leu	Ala	Asn	His	Leu	Leu	Arg	Gln
				325					330				Ala
Asp	Arg	His	Lys	Pro	Phe	Val	Arg	Ala	Phe	Ser	Thr	Asp	Ala
			340					345					Met
Arg	Leu	Met	Thr	Ala	Ser	Trp	Pro	Gly	Asn	Val	Arg	Gln	Leu
		355					360					365	Val
Val	Ile	Glu	Gln	Cys	Val	Ala	Leu	Thr	Ser	Ser	Pro	Val	Ile
	370					375					380		Ser
Ala	Leu	Val	Glu	Gln	Ala	Leu	Glu	Gly	Glu	Asn	Thr	Ala	Leu
	385				390				395				Pro
Phe	Ala	Glu	Ala	Arg	Asn	Gln	Phe	Glu	Leu	Asn	Tyr	Leu	Arg
				405				410					Lys
Leu	Gln	Ile	Thr	Lys	Gly	Asn	Val	Thr	His	Ala	Ala	Arg	Met
			420					425					Ala
Arg	Asn	Arg	Thr	Glu	Phe	Tyr	Lys	Leu	Leu	Ser	Arg	His	Glu
		435					440					445	Leu
Ala	Asn	Asp	Phe	Lys	Glu								Glu
	450					455							

<210> 7050

<211> 1306

<212> PRT

<213> Enterobacter cloacae

<400> 7050

Ala	Pro	Arg	Arg	Phe	Glu	Asp	Glu	Arg	Leu	Met	Met	Glu	Ile	Leu	Arg
1				5					10					15	
Gly	Ser	Pro	Ala	Leu	Ser	Ala	Phe	Arg	Ile	Thr	Lys	Leu	Leu	Ala	Arg
			20					25					30		
Phe	Gln	Ala	Ala	Asp	Leu	Pro	Val	Ser	Asn	Ile	Tyr	Ala	Glu	Tyr	Val
		35					40					45			
His	Phe	Ala	Asp	Leu	Asn	Ala	Pro	Leu	Asn	Ala	Glu	Glu	Arg	Val	Gln
	50				55					60					
Leu	Glu	Arg	Leu	Leu	Lys	Tyr	Gly	Pro	Ser	Leu	Ser	Ser	His	Thr	Pro
	65				70				75					80	
Thr	Gly	Lys	Leu	Ile	Leu	Ala	Thr	Pro	Arg	Pro	Gly	Thr	Ile	Ser	Pro
			85					90						95	
Trp	Ser	Ser	Lys	Ala	Thr	Asp	Ile	Ala	His	Asn	Cys	Gly	Leu	Asn	Gln
			100					105					110		
Ile	Asn	Arg	Leu	Glu	Arg	Gly	Val	Ala	Tyr	Tyr	Val	Glu	Ala	Ser	Thr

Asp	Leu	Pro	Leu	Asp	Val	Leu	Leu	Gly	Lys	Thr	Pro	Lys	Met	Thr	Arg
610						615					620				
Asp	Val	Gln	Thr	Arg	Lys	Ala	Ala	Gly	Lys	Ala	Leu	Asp	Arg	Gln	Gly
625					630					635					640
Ile	Thr	Val	Ala	Glu	Ala	Val	Asn	Arg	Val	Leu	His	Leu	Pro	Ala	Val
				645					650					655	
Ala	Glu	Lys	Thr	Phe	Leu	Val	Thr	Ile	Gly	Asp	Arg	Thr	Val	Thr	Gly
			660					665					670		
Met	Val	Ser	Arg	Asp	Gln	Met	Val	Gly	Pro	Trp	Gln	Ile	Pro	Val	Ala
		675				680					685				
Asn	Cys	Ala	Val	Thr	Thr	Ala	Ser	Leu	Asp	Ser	Tyr	Tyr	Gly	Glu	Ala
690						695					700				
Met	Ala	Leu	Gly	Glu	Arg	Thr	Pro	Val	Ala	Leu	Leu	Asp	Phe	Ala	Ala
705					710					715					720
Ser	Ala	Arg	Leu	Ala	Val	Gly	Glu	Ala	Leu	Thr	Asn	Ile	Ala	Ala	Thr
				725				730						735	
Gln	Ile	Gly	Asp	Ile	Lys	Arg	Ile	Lys	Leu	Ser	Ala	Asn	Trp	Met	Ala
			740					745					750		
Ala	Ala	Gly	His	Pro	Gly	Glu	Asp	Ala	Gly	Leu	Tyr	Glu	Ala	Val	Lys
		755					760					765			
Ala	Val	Gly	Glu	Glu	Leu	Cys	Pro	Ala	Leu	Gly	Leu	Thr	Ile	Pro	Val
		770				775					780				
Gly	Lys	Asp	Ser	Met	Ser	Met	Lys	Thr	Arg	Trp	Gln	Glu	Gly	Asn	Glu
785					790					795					800
Gln	Arg	Glu	Met	Thr	Ser	Pro	Leu	Ser	Leu	Val	Ile	Thr	Ala	Phe	Ala
				805					810					815	
Arg	Val	Glu	Asp	Val	Arg	His	Thr	Val	Thr	Pro	Gln	Leu	Ser	Thr	Glu
			820					825					830		
Asp	Asn	Ala	Leu	Leu	Leu	Ile	Asp	Leu	Gly	Lys	Gly	His	Asn	Ala	Leu
		835					840					845			
Gly	Ala	Thr	Ala	Leu	Ala	Gln	Val	Tyr	Arg	Gln	Leu	Gly	Asp	Lys	Pro
		850				855					860				
Ala	Asp	Val	Arg	Asp	Val	Ala	Gln	Leu	Lys	Gly	Phe	Tyr	Asp	Ala	Ile
865					870					875					880
Gln	Ala	Leu	Val	Ala	Gln	Arg	Lys	Leu	Leu	Ala	Tyr	His	Asp	Arg	Ser
				885					890					895	
Asp	Gly	Gly	Leu	Leu	Val	Thr	Leu	Ala	Glu	Met	Ala	Phe	Thr	Gly	His
			900					905					910		
Cys	Gly	Val	Glu	Ala	Asn	Ile	Ala	Thr	Leu	Gly	Glu	Asp	Arg	Leu	Ala
		915					920					925			
Ala	Leu	Phe	Asn	Glu	Glu	Leu	Gly	Ala	Val	Ile	Gln	Val	Arg	Ala	Ala
		930				935					940				
Asp	Arg	Asp	Ala	Val	Glu	Ala	Ile	Leu	Ala	Gln	His	Gly	Leu	Ala	Asp
945					950					955					960
Cys	Val	His	Tyr	Leu	Gly	Lys	Ala	Val	Gln	Gly	Asp	Arg	Phe	Val	Ile
				965					970					975	
Glu	Ala	Asp	Gly	His	Ala	Val	Phe	Ser	Glu	Ser	Arg	Thr	Thr	Leu	Arg
			980					985					990		
Met	Trp	Trp	Ala	Glu	Thr	Thr	Trp	Gln	Met	Gln	Arg	Leu	Arg	Asp	Asn
		995					1000					1005			
Pro	Glu	Cys	Ala	Asp	Gln	Glu	His	Asn	Ala	Lys	Ala	Asn	Asp	Asn	Asp
		1010				1015					1020				
Pro	Gly	Leu	Asn	Val	Lys	Leu	Ser	Phe	Asp	Ile	Asn	Glu	Asp	Ile	Ala
1025					1030					1035					1040
Ala	Pro	Tyr	Ile	Ala	Thr	Gly	Ala	Arg	Pro	Lys	Val	Ala	Val	Leu	Arg
				1045					1050					1055	
Glu	Gln	Gly	Val	Asn	Ser	His	Val	Glu	Met	Ala	Ala	Ala	Phe	His	Arg
			1060					1065					1070		
Ala	Gly	Phe	Asp	Ala	Ile	Asp	Val	His	Met	Ser	Asp	Leu	Leu	Ala	Gly
		1075					1080					1085			
Arg	Thr	Gly	Leu	Asp	Asp	Phe	Gln	Ala	Leu	Val	Ala	Cys	Gly	Gly	Phe

1090	1095	1100
Ser Tyr Gly Asp Val	Leu Gly Ala Gly Glu Gly Trp Ala Lys Ser Ile	
1105	1110	1115
Leu Phe Asn Ser Arg Val	Arg Asp Glu Phe Glu Thr Phe Phe His Arg	1120
	1125	1130
Pro Gln Thr Leu Ala Leu Gly Val	Cys Asn Gly Cys Gln Met Met Ser	1135
	1140	1145
Asn Leu Arg Glu Leu Ile	Pro Gly Ser Glu Ala Trp Pro Arg Phe Val	1150
	1155	1160
Arg Asn Gln Ser Asp Arg Phe	Glu Ala Arg Phe Ser Leu Val Glu Val	1165
	1170	1175
Thr Gln Ser Pro Ser Leu Leu Gln Gly Met Val Gly Ser Gln Met		1180
1185	1190	1195
Pro Ile Ala Val Ser His Gly Glu Gly Gln Val Glu Met Arg Asp Ala		1200
	1205	1210
Ala His Leu Ala Gln Leu Glu Ser Lys Gly Leu Val Ala Leu Arg Phe		1215
	1220	1225
Val Asp Asn Phe Gly Lys Val Thr Glu Thr Tyr Pro Ala Asn Pro Asn		1230
	1235	1240
Gly Ser Ala Asn Gly Ile Thr Ala Val Thr Ser Glu Ser Gly Arg Val		1245
	1250	1255
Thr Ile Met Met Pro His Pro Glu Arg Val Phe Arg Thr Val Ser Asn		1260
1265	1270	1275
Ser Trp His Pro Glu Asn Trp Gly Glu Asp Ser Pro Trp Met Arg Ile		1280
	1285	1290
Phe Arg Asn Ala Arg Lys Gln Leu Gly		1295
	1300	1305

<210> 7051

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7051

Ala Gly Lys Ile Asn Glu Met Asn Asn Asn Leu Val Ser Met Ser His	
1	5
Val Phe Tyr Arg Ala Leu Arg Ala Val Phe Ser Ser Lys Asn Val Arg	10
	20
Leu Ser Leu Pro Cys Leu Leu Leu Ala Gly Cys Val Thr His Ala Pro	25
	30
Lys Ser Ala Ile Ser His Lys Gln Glu Asp Lys Trp Pro Gln Lys Gln	35
	40
Leu Ala Asp Phe Leu Ser Thr Arg Cys Asp Asp Ile Trp Ser Leu Ser	45
65	50
Gly Arg Asp Val Glu Ser Asn Pro Leu Phe Trp Leu Arg Gly Ile Asp	55
	60
Cys Ala Gln Arg Leu Ala Pro Ala Glu Ala Arg Ala Gln Ala Ala Met	65
	70
Leu Met Asp Asp Thr Trp Gln Asp Ala Phe Lys Arg Gly Ile Val Met	75
	80
Ala Asp Ala Arg Ile Thr Pro Val Glu Arg Arg Ala Asn Val Thr Arg	85
	90
Leu Asp Thr Tyr Val Ile Asn Ile Pro Pro Gln Val Arg Pro Val Tyr	95
145	100
Gln Leu Trp Arg Asp Gly Gln Thr Leu Gln Leu Gln Leu Ser Glu Glu	105
	110
Arg Phe Arg Tyr Ser Lys Leu Gln Gln Ser Ser Asp Ser Glu Leu Asp	115
	120
Ala Leu Arg Gln Gln Gln Glu Ser Leu Arg Glu Gln Leu Glu Thr Thr	125
	130
Thr Arg Lys Leu Glu Asn Leu Thr Asp Ile Glu Arg Gln Leu Ser Thr	135
	140
	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205

210	215	220
Arg Lys Pro Ala Gly	Ser Tyr Leu Pro Asp Gly	Ser Lys Gly Asn Ser
225	230	235
Ala Thr Thr Pro Asp	Ser Glu Thr Pro Lys Gln	Glu Asp Val Lys Pro
245	250	255

<210> 7052

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 7052

His Lys Ile Ser Asn Asn Gln Lys Arg Ser Lys Glu Arg Leu Met Glu
1 5 10 15
Ser Lys Val Val Val Pro Ala Glu Gly Lys Lys Ile Thr Leu Gln Asn
20 25 30
Gly Lys Ile Asn Val Pro His Asn Pro Ile Ile Pro Phe Ile Glu Gly
35 40 45
Asp Gly Ile Gly Val Asp Val Thr Pro Ala Met Leu Lys Val Val Asp
50 55 60
Ala Ala Val Glu Lys Ala Tyr Lys Gly Glu Arg Lys Ile Ser Trp Met
65 70 75 80
Glu Ile Tyr Thr Gly Glu Lys Ser Thr Gln Val Tyr Gly Gln Asp Val
85 90 95
Trp Leu Pro Ala Glu Thr Leu Asp Leu Ile Arg Asp Tyr Arg Val Ala
100 105 110
Ile Lys Gly Pro Leu Thr Thr Pro Val Gly Gly Gly Ile Arg Ser Leu
115 120 125
Asn Val Ala Leu Arg Gln Glu Leu Asp Leu Tyr Val Cys Leu Arg Pro
130 135 140
Val Arg Tyr Tyr Gln Gly Thr Pro Ser Pro Val Lys His Pro Glu Leu
145 150 155 160
Thr Asp Met Val Ile Phe Arg Glu Asn Ser Glu Asp Ile Tyr Ala Gly
165 170 175
Ile Glu Trp Lys Ala Asp Ser Ala Asp Ala Glu Lys Val Ile Lys Phe
180 185 190
Leu Arg Glu Glu Met Gly Val Lys Lys Ile Arg Phe Pro Glu His Cys
195 200 205
Gly Ile Gly Ile Lys Pro Cys Ser Glu Glu Gly Thr Lys Arg Leu Val
210 215 220
Arg Ala Ala Ile Glu Tyr Ala Ile Thr Asn Asp Arg Asp Ser Val Thr
225 230 235 240
Leu Val His Lys Gly Asn Ile Met Lys Phe Thr Glu Gly Ala Phe Lys
245 250 255
Asp Trp Gly Tyr Gln Leu Ala Thr Glu Glu Phe Gly Gly Glu Leu Ile
260 265 270
Asp Gly Gly Pro Trp Gln Lys Ile Lys Asn Pro Asn Thr Gly Lys Glu
275 280 285
Ile Ile Ile Lys Asp Val Ile Ala Asp Ala Phe Leu Gln Gln Ile Leu
290 295 300
Leu Arg Pro Ala Glu Tyr Asp Val Ile Ala Cys Met Asn Leu Asn Gly
305 310 315 320
Asp Tyr Ile Ser Asp Ala Leu Ala Ala Gln Val Gly Gly Ile Gly Ile
325 330 335
Ala Pro Gly Ala Asn Ile Gly Asp Glu Cys Ala Leu Phe Glu Ala Thr
340 345 350
His Gly Thr Ala Pro Lys Tyr Ala Gly Gln Asp Lys Val Asn Pro Gly
355 360 365
Ser Ile Ile Leu Ser Ala Glu Met Met Leu Arg His Met Glu Trp Phe

370		375		380
Glu Ala Ala Asp Leu Ile Val Lys Gly Met Glu Gly Ala Ile Asn Ala				
385		390		395
Lys Thr Val Thr Tyr Asp Phe Glu Arg Leu Met Glu Gly Ala Lys Leu				
	405		410	415
Leu Lys Cys Ser Glu Phe Gly Asp Ala Ile Ile Ala Asn Met				
	420		425	430

<210> 7053

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7053

Gln Arg Glu Pro Glu Gly Ser Arg Phe Leu Cys Thr Gln Asp Gly Asn	
1	5
Asn Ala Met Thr His Asp Ile Pro Leu Lys Tyr Tyr Asp Ile Val Asp	
	20
Glu Tyr Ala Thr Glu Thr Ala Lys Pro Val Glu Glu Ala Glu Arg Thr	
	35
Pro Leu Ala His Tyr Phe Gln Leu Leu Thr Arg Leu Tyr Asn Asn	
	50
Glu Glu Ile Ser Glu Glu Ala Gln Arg Glu Met Ala Val Gln Ala Glu	
65	70
Ile Asp Glu Ala Arg Ile Asp Asp Ile Ala Asn Phe Leu Asn Gln Trp	
	85
	90
Gly Asn Glu	
	100

<210> 7054

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7054

Arg His Ile Asp Gly Asn Ile Pro Ala Ile Gly Phe Ile Ser His Val	
1	5
Asp Thr Ser Pro Asp Phe Ser Gly Lys His Val Asn Pro Gln Ile Val	
	20
Glu Asn Tyr Arg Gly Gly Asp Ile Ala Leu Gly Ile Gly Asp Glu Val	
	35
Leu Ser Pro Val Met Phe Pro Val Leu His Gln Leu Leu Gly Gln Thr	
	50
Leu Ile Thr Thr Asp Gly Lys Thr Leu Leu Gly Ala Asp Asp Lys Ala	
65	70
Gly Ile Ala Glu Ile Met Thr Ala Leu Ala Val Leu Lys Gly Lys Asn	
	85
	90
Ile Pro His Gly Asp Ile Arg Val Ala Phe Thr Pro Asp Glu Val	
	100
Gly Lys Gly Ala Lys His Phe Asp Val Glu Ala Phe Asn Ala Gln Trp	
	115
Ala Tyr Thr Val Asp Gly Gly Gly Val Gly Glu Leu Glu Tyr Glu Asn	
	130
Phe Asn Ala Ala Ser Val Thr Ile Lys Ile Val Gly Asn Asn Val His	
145	150
Pro Gly Ser Ala Lys Gly Val Met Val Asn Ala Leu Ser Leu Ala Ala	
	165
	170
Arg Ile His Ala Glu Val Pro Ala Glu Glu Ser Pro Glu Met Thr Glu	
	180
	185
Gly Tyr Glu Gly Phe Tyr His Leu Thr Ser Ile Lys Gly Thr Val Asp	
	195
	200
	205

Ser Ala Gln Met His Tyr Ile Val Arg Asp Phe Asp Arg Lys Ala Phe
 210 215 220
 Glu Ala Arg Lys Arg Lys Met Met Glu Ile Ala Lys Lys Val Gly Lys
 225 230 235 240
 Gly Leu His Pro Asp Cys Tyr Ile Glu Leu Ile Ile Glu Asp Ser Tyr
 245 250 255
 Tyr Asn Met Arg Glu Lys Val Met Glu His Pro His Ile Leu Asp Ile
 260 265 270
 Ala Gln Gln Ala Met Arg Asp Cys Asp Ile Glu Pro Val Met Lys Pro
 275 280 285
 Ile Arg Gly Gly Thr Asp Gly Ser Gln Leu Ser Phe Met Gly Leu Pro
 290 295 300
 Cys Pro Asn Leu Phe Thr Gly Gly Tyr Asn Tyr His Gly Lys His Glu
 305 310 315 320
 Phe Val Thr Leu Glu Gly Met Glu Lys Ala Val Gln Val Ile Val Arg
 325 330 335
 Ile Ala Glu Leu Thr Ala Lys Arg
 340 345

<210> 7055

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 7055

Phe Asn Asp Lys Asn His Thr Glu Arg Lys Ala Met Gly Ile Leu Ser
 1 5 10 15
 Trp Ile Ile Phe Gly Leu Ile Ala Gly Ile Leu Ala Lys Trp Ile Met
 20 25 30
 Pro Gly Lys Asp Gly Gly Gly Phe Ile Val Thr Ile Ile Leu Gly Ile
 35 40 45
 Val Gly Ala Val Val Gly Gly Trp Ile Ser Thr Leu Phe Gly Phe Gly
 50 55 60
 Arg Val Asp Gly Phe Asn Phe Gly Ser Phe Val Val Ala Val Ile Gly
 65 70 75 80
 Ala Leu Val Val Leu Phe Ile Tyr Arg Lys Ile Lys Ser
 85 90

<210> 7056

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 7056

Ala Ile Met Arg Gln Leu Ile Thr Pro Glu Asn Thr Met Thr Lys Thr
 1 5 10 15
 Ser Phe Arg Lys His Arg Val Glu Arg Phe Ser Ser Arg Gln Ala Thr
 20 25 30
 Arg Arg Thr Pro Glu Pro Gln Pro Thr Arg Val Ile Leu Phe Asn Lys
 35 40 45
 Pro Tyr Asp Val Leu Pro Gln Phe Thr Asp Glu Ala Gly Arg Ser Thr
 50 55 60
 Leu Lys Asp Phe Ile Pro Val Gln Gly Val Tyr Ala Ala Gly Arg Leu
 65 70 75 80
 Asp Arg Asp Ser Glu Gly Leu Leu Val Leu Thr Asn Asp Gly Val Leu
 85 90 95
 Gln Ala Arg Leu Thr Gln Pro Gly Lys Arg Thr Gly Lys Ile Tyr Tyr
 100 105 110
 Val Gln Val Glu Gly Glu Pro Asp Asp Ala Ser Leu Ala Lys Leu Arg
 115 120 125
 Asn Gly Val Thr Leu Asn Asp Gly Pro Thr Leu Pro Ala Gly Ile Glu

130	135	140
Arg Val Asn Glu Pro Glu Trp Leu Trp Pro Arg Asn Pro Pro Ile Arg		
145	150	155
Glu Arg Lys Ser Ile Pro Thr Ser Trp Leu Lys Ile Thr Leu Tyr Glu		
	165	170
Gly Arg Asn Arg Gln Val Arg Arg Met Thr Ala His Val Gly Phe Pro		
	180	185
Thr Leu Arg Leu Ile Arg Tyr Ala Met Gly Ser Tyr Thr Leu Asp Ser		
	195	200
Leu Ala Asn Gly Glu Trp Arg Asp Val Thr Pro Lys Glu Asn		
210	215	220

<210> 7057

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 7057

Thr Arg Gln Thr Cys Ala Arg His Trp Leu Arg Lys Ala Ser Ala Ala	
1	5
Gly Ser Leu Arg Arg Ala Cys Arg Trp Met Ser Leu Gln Asn Leu Thr	
	20
Gly Arg Leu Gln Arg Val Ser Met Val Gly Gly Arg Asp Arg Ile Arg	
	35
Arg Leu Glu Val Gln Cys Arg Glu Tyr Ser Met Ser Asp Asn Ser Gln	
	50
Lys Lys Val Ile Val Gly Met Ser Gly Gly Val Asp Ser Ser Val Ser	
65	70
Ala Tyr Leu Leu Gln Gln Gly Tyr Lys Val Glu Gly Leu Phe Met	
	85
Lys Asn Trp Glu Glu Asp Asp Gly Glu Glu Tyr Cys Thr Ala Ala Ala	
	100
Asp Leu Ala Asp Ala Gln Ala Val Cys Asp Lys Leu Gly Ile Glu Leu	
	115
His Thr Val Asn Phe Ala Ala Glu Tyr Trp Asp Asn Val Phe Glu Leu	
	130
Phe Leu Glu Glu Tyr Lys Ala Gly Arg Thr Pro Asn Pro Asp Ile Leu	
145	150
Cys Asn Lys Glu Ile Lys Phe Lys Ala Phe Leu Glu Phe Ala Ala Glu	
	165
Asp Leu Gly Ala Asp Tyr Ile Ala Thr Gly His Tyr Val Arg Arg Ala	
	180
Asp Val Asn Gly Lys Ser Gln Leu Leu Arg Gly Leu Asp Gly Asn Lys	
	195
Asp Gln Ser Tyr Phe Leu Tyr Thr Leu Ser His Glu Gln Ile Ala Gln	
	210
Ser Leu Phe Pro Val Gly Glu Leu Glu Lys Pro Glu Val Arg Lys Ile	
225	230
Ala Glu Asp Leu Asp Leu Ile Thr Ala Lys Lys Lys Asp Ser Thr Gly	
	245
Ile Cys Phe Ile Gly Glu Arg Lys Phe Arg Glu Phe Leu Gly Arg Tyr	
	260
Leu Pro Ala Gln Pro Gly Lys Ile Val Thr Val Asp Gly Asp Glu Ile	
	275
Gly Gln His Gln Gly Leu Met Tyr His Thr Leu Gly Gln Arg Lys Gly	
	290
Leu Gly Ile Gly Gly Thr Lys Glu Gly Ser Glu Asp Pro Trp Tyr Val	
305	310
Val Asp Lys Asp Val Glu Asn Asn Ile Leu Val Val Ala Gln Gly His	
	325
Asp His Pro Arg Leu Met Ser Val Gly Leu Ile Ala Gln Gln Leu His	

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<210> 7058
<211> 219
<212> PRT
<213> Enterobacter cloacae
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<210> 7059
<211> 381
<212> PRT
<213> Enterobacter cloacae
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<400> 7059																
Glu	Pro	Ala	Glu	Tyr	Ile	Asn	Met	Asp	Tyr	Gln	Leu	Thr	Leu	Asn	Trp	
1				5					10					15		
Pro	Asp	Phe	Ile	Glu	Arg	Tyr	Trp	Gln	Lys	Arg	Pro	Val	Val	Leu	Lys	
			20					25					30			
Arg	Gly	Ile	Ser	Asn	Phe	Ile	Asp	Pro	Ile	Ser	Pro	Asp	Glu	Leu	Ala	
		35					40					45				
Gly	Leu	Ala	Met	Glu	Asn	Glu	Val	Asp	Ser	Arg	Leu	Val	Ser	His	Gln	
	50					55					60					

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Asp Gly Lys Trp Gln Val Ser His Gly Pro Phe Glu Ser Tyr Asp His
65      70      75      80
Leu Gly Glu Asn Asn Trp Ser Leu Leu Val Gln Ala Val Asn Asn Trp
      85      90      95
His Glu Pro Thr Ala Ala Leu Met Arg Pro Phe Arg Ala Leu Pro Asp
      100      105      110
Trp Arg Met Asp Asp Leu Met Ile Ser Phe Ser Val Pro Gly Gly Gly
      115      120      125
Val Gly Pro His Leu Asp Gln Tyr Asp Val Phe Ile Ile Gln Gly Thr
      130      135      140
Gly Arg Arg Arg Trp Arg Val Gly Glu Lys Val Pro Met Lys Gln His
145      150      155      160
Cys Pro His Pro Asp Leu Leu Gln Val Asp Pro Phe Glu Gly Ile Ile
      165      170      175
Asp Glu Glu Leu Glu Pro Gly Asp Ile Leu Tyr Ile Pro Pro Gly Phe
      180      185      190
Pro His Glu Gly Tyr Ser Leu Glu Asn Ser Leu Asn Tyr Ser Val Gly
      195      200      205
Phe Arg Ala Pro Ser Gly Arg Glu Met Ile Ser Gly Phe Ala Asp Tyr
210      215      220
Val Leu Gln Arg Glu Leu Gly Ser Tyr Arg Tyr Ser Asp Pro Asp Val
225      230      235      240
Pro Ala Arg Glu His Pro Ala Asp Ile Leu Pro Glu Glu Leu Asp Lys
      245      250      255
Leu Arg Gly Met Met Leu Asp Leu Ile Asn Glu Pro Glu His Phe Arg
260      265      270
Gln Trp Phe Gly Glu Phe Ile Ser Gln Ser Arg His Glu Leu Asp Val
275      280      285
Ala Pro Pro Glu Pro Pro Tyr Gln Ala Asp Glu Ile Tyr Asp Ala Leu
290      295      300
Gln Gln Gly Asp Lys Leu Val Arg Leu Gly Gly Leu Arg Val Leu Arg
305      310      315      320
Ile Gly Glu Glu Val Phe Val Asn Gly Glu Arg Leu Asp Ser Pro His
      325      330      335
Arg Pro Ala Leu Glu Ser Ile Ala Ser Gln Met Val Leu Thr Ala Asp
340      345      350
Thr Phe Gly Asp Ala Leu Asp Asp Pro Ser Phe Leu Ala Met Leu Ala
355      360      365
Ala Leu Val Asn Ser Gly Tyr Trp Phe Phe Glu Asp
370      375      380

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<210> 7060

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7060

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Arg Leu Arg Gln Asn Lys Phe Leu Leu Ile Val Asn Leu Pro Glu Leu
1      5      10      15
Arg Ile Met Glu Leu Ser Ser Leu Thr Ala Val Ser Pro Val Asp Gly
20      25      30
Arg Tyr Gly Asp Lys Val Ser Ala Leu Arg Gly Ile Phe Ser Glu Tyr
35      40      45
Gly Leu Leu Lys Phe Arg Val Gln Val Glu Val Arg Trp Leu Gln Lys
50      55      60
Leu Ala Ala Gln Thr Ala Ile Lys Glu Val Pro Ala Phe Asp Ala Lys
65      70      75      80
Ala Asn Asp Tyr Leu Asp Lys Ile Val Ala Glu Phe Ser Glu Glu Asp
85      90      95
Ala Ala Arg Ile Lys Thr Ile Glu Arg Thr Thr Asn His Asp Val Lys
100      105      110

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Ala Val Glu Tyr Phe Leu Lys Glu Lys Val Ala Cys Val Pro Ala Leu
 115 120 125
 His Ala Val Ser Glu Phe Ile His Phe Ala Cys Thr Ser Glu Asp Ile
 130 135 140
 Asn Asn Leu Ser His Ala Leu Met Leu Phe Thr Ala Arg Lys Glu Val
 145 150 155 160
 Val Leu Pro Tyr Trp Arg Lys Ile Ile Asp Ala Val Lys Ala Leu Ser
 165 170 175
 Val Glu Tyr Arg Asp Ile Pro Leu Leu Ser Arg Thr His Gly Gln Pro
 180 185 190
 Ala Thr Pro Ser Thr Met Gly Lys Glu Met Ala Asn Val Ala Tyr Arg
 195 200 205
 Met Glu Arg Gln Tyr Arg Gln Leu Glu Gln Val Glu Ile Leu Gly Lys
 210 215 220
 Ile Asn Gly Ala Val Gly Asn Tyr Asn Ala His Ile Ala Ala Tyr Pro
 225 230 235 240
 Glu Val Asp Trp His Gln Phe Ser Glu Glu Phe Val Thr Ser Leu Gly
 245 250 255
 Ile Gln Trp Asn Pro Tyr Thr Thr Gln Ile Glu Pro His Asp Tyr Ile
 260 265 270
 Ala Glu Leu Phe Asp Cys Ile Ala Arg Phe Asn Thr Ile Leu Ile Asp
 275 280 285
 Phe Asp Arg Asp Val Trp Gly Tyr Ile Ala Leu Asn His Phe Lys Gln
 290 295 300
 Lys Thr Ile Ala Gly Glu Ile Gly Ser Ser Thr Met Pro His Lys Val
 305 310 315 320
 Asn Pro Ile Asp Phe Glu Asn Ser Glu Gly Asn Leu Gly Leu Ala Asn
 325 330 335
 Ala Val Leu Gln His Met Ala Ser Lys Leu Pro Val Ser Arg Trp Gln
 340 345 350
 Arg Asp Leu Thr Asp Ser Thr Val Leu Arg Asn Leu Gly Val Gly Ile
 355 360 365
 Gly Tyr Ala Leu Ile Ala Tyr Gln Ser Thr Leu Lys Gly Val Ser Lys
 370 375 380
 Leu Glu Val Asn Arg Asp Arg Leu Leu Asp Glu Leu Asp His Asn Trp
 385 390 395 400
 Glu Val Leu Ala Glu Pro Ile Gln Thr Val Met Arg Arg Tyr Gly Ile
 405 410 415
 Glu Lys Pro Tyr Glu Lys Leu Lys Glu Leu Thr Arg Gly Lys Arg Val
 420 425 430
 Asp Ala Glu Gly Met Lys Gln Phe Ile Asp Gly Leu Ala Leu Pro Glu
 435 440 445
 Glu Glu Lys Ala Arg Leu Lys Glu Met Thr Pro Ala Asn Tyr Ile Gly
 450 455 460
 Arg Ala Ile Thr Met Val Asp Glu Leu Lys
 465 470 475

<210> 7061

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7061

Arg Arg Arg Leu Leu Ala Gly Leu Gly Gly Asp Glu Ile Leu Val Ala
 1 5 10 15
 Arg Leu Ser His Ser Asp Asp Asp Thr Arg Thr Glu Ile Asn Ala
 20 25 30
 Ile Lys Thr Arg Leu Asn Gly Leu Ile Ala Gly Glu Tyr Gly Leu Gly
 35 40 45
 Asn Ala Thr Ile Leu Tyr Pro Gly Ala Ser Leu Gly Val Val Ile Val
 50 55 60

Asp Pro His Ser Thr Asp Glu Asp Ser Ala Leu Arg Thr Ala Asp Leu
 65 70 75 80
 Ala Met Tyr Gln Asp Lys Lys Gly Lys Ser Lys Thr Gly Phe Val Ala
 85 90 95

Leu Asp

<210> 7062

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 7062

Pro Val Ile Arg Ser Leu His Leu Arg Thr Trp Arg Asp Ser Arg Lys
 1 5 10 15
 Met Lys Lys Ala Ile Ala Val Ala Ile Ile Ser Thr Leu Met Val Val
 20 25 30
 Leu Ser Leu Tyr Ala Val Asn Ala Ile Ile Ala Glu Gln Gln Lys Asn
 35 40 45
 Arg Gln Arg Glu Ile Ser His Thr Leu Leu Ser Tyr Ser Glu Glu Leu
 50 55 60
 Thr Gln Asn Ile Ala Ser Thr Leu Lys Asn Thr Thr Val Gln Gly Cys
 65 70 75 80
 Asp Ser Ala Ser Leu Asn Val Tyr Arg Lys Leu Lys Met Arg Ser Leu
 85 90 95
 Tyr Phe Ala Asp Val Gly Phe Ile Glu Lys Gly Lys Ile Thr Cys Thr
 100 105 110
 Ala Phe Trp Gly Lys Leu Ala Asn Pro Ile Ala Leu Pro Pro Glu Leu
 115 120 125
 His Lys Thr His Asn Gly Phe Ser Leu Ala Gln Phe Ser Gln Lys Asp
 130 135 140
 Phe Phe Ile Gly Asn Ala Thr Ile Tyr Asn His Leu Ile Ile Phe Thr
 145 150 155 160
 Ser Arg Ser Ala Tyr Asp Lys Phe Ala Pro Val Thr Ala Asn Tyr Ser
 165 170 175
 Leu Arg Ser Ser Thr Lys Asp Phe Gly Arg Thr Phe Phe Thr Val Thr
 180 185 190
 Pro Pro Ser Glu Asn Phe Ser Arg Leu Gln Ser Leu Leu Phe Thr Leu
 195 200 205
 Ala Val Thr Glu Cys Ser Thr Arg Trp Asp Leu Cys Val Thr Val Thr
 210 215 220
 His His Asp Ala Gly Leu Ala Ser Leu Ser His Val Val Met Val Leu
 225 230 235 240
 Leu Cys Leu Phe Leu Tyr Phe Ile Trp Val Ser Leu Thr Leu Phe Ser
 245 250 255
 Leu Arg Leu Tyr Glu Asp Arg Arg Ser Leu Glu Arg Thr Leu Val Lys
 260 265 270
 Ala Val Lys Ala Asn Thr Ile Ser Val His Phe Gln Pro Val Ile Arg
 275 280 285
 Val Ala Asp Lys Lys Ile Val Gly Val Glu Val Leu Ser Arg Trp Gln
 290 295 300
 Asp Asn Asn His Lys Glu Val Ser Pro Glu Leu Phe Ile Pro Leu Ile
 305 310 315 320
 Lys Lys Ile Gly Leu Tyr Asn Val Tyr Tyr Gln Asn Met Ile Lys Lys
 325 330 335
 Ser Leu Ala Glu Ile Ala Ala Leu Ala Ala Glu His Gln Leu Met Ile
 340 345 350
 Ser Leu Asn Val Gly Arg Thr Glu Ile Glu Asp Gly Lys Phe Leu Ser
 355 360 365
 Val Leu Arg His Ala Cys Ser Glu Asn Ala Ile Pro Leu Ser Leu Ile
 370 375 380

Lys Val Glu Leu Ser Glu Asn Gly Val Ser Thr Ser Ala Ile Leu Glu
 385 390 395 400
 Glu Phe Cys Glu Glu Leu Lys Ser Ala Gly Val Lys Ile Ser Ile Asp
 405 410 415
 Asp Phe Gly Val Gln Asn Ser Asn Leu Ala Arg Leu Thr Asn Leu Lys
 420 425 430
 Tyr Asp Glu Ile Lys Val Asp Lys Ser Leu Val Asp Gly Ile Ser Glu
 435 440 445
 His Tyr Lys Gln Asp Ile Leu Val Ile Phe Ser Asp Ala Leu Ala Lys
 450 455 460
 Leu Asn Lys Thr Leu Val Phe Glu Gly Val Glu Ser Glu Thr Gln Phe
 465 470 475 480
 Gln Phe Ile Ala Gln Arg Tyr Pro Asp Ala Leu Val Gln Gly Trp Tyr
 485 490 495
 Phe Ser Lys Ser Leu Thr Arg His Asp Leu Ala Arg Leu Leu Ala Asp
 500 505 510
 Ser Ala Arg
 515

<210> 7063
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 7063
 Gly Glu Leu Met Phe Lys Pro His Val Thr Val Ala Cys Val Val His
 1 5 10 15
 Ala Gln Gly Lys Phe Leu Val Val Glu Glu Thr Ile Asn Gly Lys Ala
 20 25 30
 Leu Trp Asn Gln Pro Ala Gly His Leu Glu Ala Asn Glu Thr Leu Leu
 35 40 45
 Gln Ala Ala Lys Arg Glu Leu Trp Glu Glu Thr Gly Ile Arg Ala Glu
 50 55 60
 Pro Gln His Phe Ile Arg Met His Gln Trp Ile Ala Pro Asp Gln Thr
 65 70 75 80
 Pro Phe Leu Arg Phe Leu Phe Ala Val Glu Leu Asn Glu Thr Cys Ala
 85 90 95
 Thr Glu Pro His Asp Asp Asp Ile Asp Arg Cys Leu Trp Val Thr Ala
 100 105 110
 Glu Glu Ile Leu Asn Ala Pro Asn Leu Arg Ser Pro Leu Val Ala Glu
 115 120 125
 Ser Ile Arg Cys Trp Gln Ser Thr Ala Arg Leu Pro Leu Asp Val Ile
 130 135 140
 Ala Glu Phe Asn Trp Pro Phe Thr Glu Gly Val Asn Gly Gly Gly Ala
 145 150 155 160

<210> 7064
 <211> 240
 <212> PRT
 <213> Enterobacter cloacae

<400> 7064
 Ile Ile Ser Val Lys Leu Phe Ile Pro Phe Ile Lys Gly Glu Met Met
 1 5 10 15
 Met Arg Val Leu Val Val Glu Asp Asn Ala Leu Leu Arg His His Leu
 20 25 30
 Lys Val Gln Leu Gln Glu Met Val His Gln Val Asp Asp Ala Glu Asp
 35 40 45
 Ala Lys Glu Ala Asp Tyr Tyr Leu Asn Glu His Leu Pro Asp Ile Ala

50	55	60
Ile Val Asp Leu Gly Leu Pro Asp Glu Asp Gly Leu Ser Leu Ile Arg		
65	70	75
Arg Trp Arg Ser His Asp Val Ser Leu Pro Val Leu Val Leu Thr Ala		80
	85	90
Arg Glu Gly Trp Gln Asp Lys Val Glu Val Leu Ser Ala Gly Ala Asp		95
	100	105
Asp Tyr Val Thr Lys Pro Phe His Ile Glu Glu Val Ala Ala Arg Met		110
	115	120
Gln Ala Leu Leu Arg Arg Asn Ser Gly Leu Ala Ser Gln Val Ile Ser		125
	130	135
Leu Pro Pro Phe Gln Val Asp Leu Ser Arg Arg Glu Phe Ser Ile Asn		140
145	150	155
Asp Glu Val Ile Lys Leu Thr Ala Phe Glu Tyr Thr Ile Met Glu Thr		160
	165	170
Leu Ile Arg Asn Asn Gly Lys Val Val Ser Lys Asp Ser Leu Met Leu		175
	180	185
Gln Leu Tyr Pro Asp Ala Glu Leu Arg Glu Ser His Thr Ile Asp Val		190
	195	200
Leu Met Gly Arg Leu Arg Lys Lys Ile Gln Ala Gln Tyr Pro His Asp		205
210	215	220
Val Ile Thr Thr Val Arg Gly Gln Gly Tyr Leu Phe Glu Leu Arg		225
225	230	235
		240

<210> 7065

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7065

Met Lys Gly Ile Leu Arg His Ile Leu Pro Leu Ser Leu Arg Val Arg	
1	5
Phe Leu Leu Ala Thr Ala Ala Val Val Leu Val Leu Ser Leu Ser Tyr	10
	20
Gly Met Val Ala Leu Val Gly Tyr Ser Val Ser Phe Asp Lys Thr Thr	25
	30
	35
Phe Arg Leu Leu Arg Gly Glu Ser Asn Leu Phe Tyr Thr Leu Ala Lys	40
	45
	50
Trp Glu Asn Asn Arg Ile Thr Val Glu Met Pro Glu Asn Leu Asn Gln	55
65	60
	70
Gln Ser Pro Thr Leu Ala Leu Ile Tyr Asp Glu Lys Gly Lys Leu Leu	75
	80
	85
Trp Ala Gln Arg Asp Val Pro Trp Leu Lys Lys Arg Ile Arg Pro Glu	90
	95
	100
Trp Leu Lys Thr Asn Gly Phe His Glu Ile Glu Ala Asp Leu Asn Ser	105
	110
	115
Thr Ser Ser Leu Leu Arg Asp Asp Arg Ala Leu Gln Ile Lys Leu Asn	120
	125
	130
Glu Ile Arg Ala Glu Asp Asp Thr Glu Met Thr His Ser Val Ala	135
145	140
	150
Ile Asn Leu Tyr Pro Ala Thr Leu Asn Met Pro Gln Leu Thr Ile Val	155
	160
	165
Val Ile Asp Thr Ile Pro Val Glu Leu Lys Arg Ser Tyr Met Val Trp	170
	175
	180
Asn Trp Phe Val Tyr Val Leu Ala Ala Asn Leu Leu Leu Val Ile Pro	185
	190
	195
Leu Leu Trp Val Ala Ala Trp Ser Leu Arg Pro Ile Glu Ser Leu	200
210	205
	215
Ala Lys Glu Val Arg Glu Leu Glu Glu His His Arg Glu Lys Leu Asn	220
225	225
	230
Pro Glu Thr Thr Arg Glu Leu Thr Ser Leu Val Arg Asn Leu Asn Arg	235
	240

				245				250					255				
Leu	Leu	Lys	Ser	Glu	Arg	Glu	Arg	Tyr	Asp	Lys	Tyr	Arg	Thr	Thr	Leu		
			260					265					270				
Thr	Asp	Leu	Thr	His	Ser	Leu	Lys	Thr	Pro	Leu	Ala	Val	Met	Gln	Ser		
		275					280						285				
Thr	Leu	Arg	Ser	Met	Arg	Ser	Ser	Lys	Met	Ser	Val	Asp	Asp	Ala	Glu		
	290					295					300						
Pro	Val	Ile	Leu	Glu	Gln	Ile	Ser	Arg	Ile	Ser	Gln	Gln	Ile	Gly	Tyr		
305					310					315					320		
Tyr	Leu	His	Arg	Ala	Ser	Met	Arg	Ser	Gly	Ser	Ala	Leu	Leu	Ser	Arg		
			325						330					335			
Glu	Leu	His	Pro	Val	Ala	Pro	Leu	Leu	Asp	Asn	Leu	Thr	Ser	Ala	Leu		
			340					345					350				
Asn	Lys	Val	Tyr	Gln	Arg	Lys	Gly	Val	Asn	Ile	Ser	Leu	Asp	Ile	Ser		
	355						360					365					
Pro	Glu	Ile	Ser	Phe	Val	Gly	Glu	Lys	Asn	Asp	Phe	Met	Glu	Val	Met		
	370					375				380							
Gly	Asn	Leu	Leu	Asp	Asn	Ala	Cys	Lys	Tyr	Cys	Leu	Glu	Phe	Val	Glu		
385					390					395					400		
Val	Ser	Ala	Arg	Val	Thr	Asp	Asn	Glu	Leu	His	Ile	Ile	Val	Glu	Asp		
			405						410					415			
Asp	Gly	Pro	Gly	Ile	Pro	Arg	Asn	Lys	Arg	Glu	Val	Val	Phe	Asp	Arg		
			420					425					430				
Gly	Gln	Arg	Ala	Asp	Thr	Leu	Arg	Pro	Gly	Gln	Gly	Val	Gly	Leu	Ser		
	435						440					445					
Val	Ala	Arg	Glu	Ile	Val	Asp	Gln	Tyr	Glu	Gly	Lys	Ile	Glu	Thr	Gly		
	450					455				460							
Glu	Ser	Leu	Leu	Gly	Gly	Ala	Arg	Met	Glu	Val	Ile	Phe	Gly	Arg	Gln		
465					470					475					480		
His	Pro	Val	Ser	Asn	Asp	Ser											
				485													

<210> 7066

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 7066

Pro	Arg	Cys	Gln	Ile	Ser	Gln	Leu	Leu	Thr	Phe	Ser	Ser	Trp	Leu	Thr		
1			5						10					15			
Leu	Phe	Thr	Glu	His	Leu	Lys	Asn	Lys	Pro	Tyr	Thr	Gly	Lys	Val	Asn		
		20						25					30				
Thr	Met	Thr	Glu	Ile	Ile	Thr	Arg	Lys	Glu	Lys	Ile	Ser	Tyr	Gly	Leu		
	35					40						45					
Gly	Asp	Met	Ala	Ser	His	Ile	Gly	Leu	Asp	Asn	Val	Ile	Ile	Phe	Leu		
	50					55					60						
Thr	Phe	Tyr	Tyr	Thr	Asp	Val	Val	Gly	Leu	Pro	Ala	Ala	Phe	Val	Gly		
65					70					75					80		
Thr	Met	Phe	Leu	Leu	Ala	Arg	Thr	Ala	Asp	Ala	Ile	Ile	Asp	Pro	Ala		
			85					90						95			
Met	Gly	Tyr	Ile	Ala	Asp	Arg	Thr	Arg	Thr	Arg	Trp	Gly	Lys	Phe	Arg		
		100						105					110				
Pro	Trp	Met	Leu	Trp	Leu	Ala	Leu	Pro	Phe	Gly	Ala	Ser	Cys	Leu	Leu		
	115						120					125					
Thr	Tyr	Ala	Val	Pro	Ala	Ser	Leu	Asp	Leu	His	Gly	Lys	Met	Ile	Phe		
	130					135					140						
Ala	Thr	Val	Ser	Tyr	Thr	Leu	Met	Met	Leu	Met	Tyr	Thr	Ala	Ile	Asn		
145					150					155					160		
Ile	Pro	Tyr	Cys	Ser	Met	Gly	Ala	Val	Ile	Thr	Pro	Asp	Asn	Asp	Ala		
			165					170					175				
Arg	Ile	Ser	Leu	Gln	Ser	Tyr	Arg	Phe	Phe	Leu	Ala	Thr	Leu	Gly	Gly		


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<210> 7067
<211> 684
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Asp	Ala	Leu	Ser 5	Met	Ser	Glu	Leu	Ile 10	Gln	His	Ser	Asn	Ser 15	Ile
Glu	Trp	Arg	Phe 20	Glu	Arg	Gln	Ile	Leu 25	Arg	Ile	Glu	Pro	Trp 30	Gly	Glu
Asn	Ser	Leu 35	Arg	Val	Arg	Ala	Thr 40	Cys	Ser	Pro	Ala	Phe 45	Glu	Asp	Ala
Leu	Gln 50	Ala	Leu	Leu	Pro	Ala 55	Ala	Pro	Cys	Gln	Ala 60	Glu	Ile	Ile	Ala
Glu 65	Ala	Glu	Ser	Leu	Thr 70	Leu	Arg	Asn	Gly	Asn 75	Ile	Thr	Ala	Thr	Leu
Asn	Leu	Lys	Gly 85	Gln	Leu	Ala	Phe	Tyr 90	Asn	Gln	Arg	Gly	Glu 95	Leu	Leu
Leu	Glu	Glu	Met 100	Trp	Arg	Gln	Arg	Ser 105	Thr	Val	Gly	Ile	Gly 110	Ala	Ser
Glu	Lys	Ser 115	Gln	Asp	Lys	Tyr	Val 120	Ser	Ala	Leu	Lys	Leu 125	Asp	Gly	Arg
Glu	Phe	Lys	Pro	Leu	Met	Gly	Gly	Lys	Tyr	Gln	Leu	Thr	Val	Arg	Phe

130	135	140
Glu Ser Arg Pro Asp	Glu Arg Ile Tyr Gly Met	Gly Gln Tyr Gln Gln
145	150	155
Pro Trp Leu Asp Leu	Lys Gly Cys Thr Leu Glu Leu Ala Gln Arg Asn	160
165	170	175
Ser Gln Ala Ser Val Pro Phe Met Gln Ser Ser Leu Gly Tyr Gly Leu	185	190
180	195	200
Leu Trp Asn Asn Pro Ala Ile Gly Glu Ala Ser Phe Ala Lys Asn Gln	205	210
210	215	220
Thr Glu Trp Arg Ala Arg Val Thr Gly Glu Met Asp Tyr Trp Ile Thr	225	230
225	235	240
Ala Ala Asp Thr Val Ala Asp Ile Thr Arg Gln Tyr Val Lys Ala Thr	245	250
245	255	260
Gly Thr Pro Pro Ala Ala Pro Ala Phe Ile Ser Gly Leu Trp Gln Cys	265	270
260	275	280
Lys Leu Arg Tyr Arg Thr Gln Gln Glu Val Leu Glu Val Ala Arg Glu	285	290
275	285	295
Tyr Arg Arg Arg Asn Leu Pro Leu Ser Val Met Val Ile Asp Phe Phe	300	305
290	310	315
His Trp Pro Asn Gln Gly Thr Trp Cys Phe Asp Pro Val Asp Trp Pro	320	325
305	330	335
Asp Pro Glu Gly Met Val Asp Glu Leu Arg Glu Met Gly Ile Ala Leu	340	345
325	350	355
Met Val Ser Val Trp Pro Thr Val Glu Ala Arg Ser Pro Leu Tyr Pro	360	365
340	370	375
Leu Met Lys Ala Lys Gly Trp Leu Val Ser Ser Glu Arg Gly Val Gln	380	385
355	390	395
Val Asn Leu Asp Phe Met Gly Asn Thr Thr Phe Phe Asp Ala Thr His	400	405
370	410	415
Pro Glu Ala Arg Lys Phe Val Trp Asp Thr Val Lys Lys Asn Tyr Tyr	420	425
385	430	435
Asp Met Gly Ile Lys Leu Phe Trp Leu Asp Glu Ala Glu Pro Glu Tyr	440	445
390	450	455
Arg Ala Tyr Asp Phe Asp Asn Tyr Arg Tyr His Ala Gly Pro Val Leu	460	465
405	470	475
Glu Val Gly Asn Arg Tyr Pro Arg Asp Phe Ala Gln Gly Phe Tyr Asp	480	485
420	490	495
Gly Leu Gln Ala Asn Gly Glu Thr Asp Ile Val Asn Leu Val Arg Cys	500	505
435	510	515
Ala Trp Ala Gly Ser Gln Arg Phe Gly Val Leu Ala Trp Ser Gly Asp	520	525
450	530	535
Val His Ser Ser Phe His Ala Phe Arg Asn Gln Leu Ala Ala Gly Leu	540	545
465	550	555
Asn Met Gly Leu Ala Gly Ile Pro Trp Trp Thr Thr Asp Ile Gly Gly	560	565
485	570	575
Phe Gln Gly Gly Asn Val Asn Asp Pro Ala Phe His Glu Leu Leu Ile	580	585
500	590	595
Arg Trp Phe Gln Trp Ala Val Phe Thr Pro Val Leu Arg Met His Gly	600	605
515	610	615
Tyr Arg Glu Pro Gln Ile Gln Pro Pro Glu Arg Tyr Arg Asp Gly Ile	620	
530		
Pro Gln Cys Asn Ser Gly Ser Pro Asn Glu Leu Trp Ser Tyr Gly Glu		
545		
Glu Asn Tyr Ala Ile Met Gln Arg Trp Leu Thr Val Arg Glu Thr Leu		
565		
Arg Pro Tyr Ile Asp Ala Leu Tyr Gln Gln Ala His Leu His Gly Asp		
580		
Pro Leu Met Arg Pro Leu Phe Trp His Tyr Pro Gln Asp Lys Gln Ser		
595		
Trp Ala Cys Glu Asp Gln Tyr Leu Phe Gly Glu Asp Leu Leu Val Ala		
610		

Pro Val Met Gln Ala Gly Gln Arg Glu Arg Asp Val Trp Leu Pro Thr
 625 630 635 640
 Gly Asn Ser Trp Val Ala Leu Asn Gly Glu Arg Tyr Ala Gly Gly Glu
 645 650 655
 His Ile Arg Val Pro Ala Ala Leu Glu Thr Ile Pro Val Phe Ile Arg
 660 665 670
 Glu Gly Ser Pro Leu Ile Gln Gln Leu Val Asp
 675 680

<210> 7068
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 7068
 Ile Gly Trp Ile Lys Ala Gly Cys Tyr Ser Val Leu Ala Glu Arg Arg
 1 5 10 15
 Thr Ala Gly Gly Lys Arg Met Ile Gln Cys Lys Arg Val Tyr Glu Gln
 20 25 30
 Ala Thr Ser Asp Asp Gly Tyr Arg Val Leu Val Asp Arg Leu Trp Pro
 35 40 45
 Arg Gly Ile Lys Lys Thr Asp Leu Ala Cys Asp Glu Trp Cys Lys Ser
 50 55 60
 Leu Thr Pro Ser Ser Glu Leu Arg Lys Ala Phe His Ser Glu Thr Ile
 65 70 75 80
 Asp Phe Thr Ala Phe Ser Glu Ala Tyr Arg Lys Glu Leu Ala Gln His
 85 90 95
 Gln Asp Glu Gly Lys Arg Leu Ala Ala Leu Ala Arg Gln Gln Thr Val
 100 105 110
 Thr Leu Leu Tyr Gly Ala Lys Asn Arg Glu Gln Asn His Ala Arg Val
 115 120 125
 Leu Ala Asp Trp Leu Arg Lys Leu
 130 135

<210> 7069
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 7069
 Ser Gly Glu Lys Arg Met Gly Gln Leu Val Thr Leu His Glu Trp Ala
 1 5 10 15
 Ser Gly Pro Asn Gly Phe Lys Tyr Pro Leu Ser Asn Ser Ala Leu Asn
 20 25 30
 Lys Ile Ala Lys Thr Lys Gln Thr Tyr Pro Pro Ala Leu Lys Gln Gly
 35 40 45
 Arg Arg Trp Val Ile Asp Glu Asp Ala Arg Phe Val Gly Met Val Gly
 50 55 60
 Ser Val Asp Ile Ser Ser Ser Leu Ser Asp Lys Ala Arg Gln Leu Val
 65 70 75 80
 Glu Lys Ala Ile Asn Gly Ser Ser Pro Gln Lys Thr
 85 90

<210> 7070
 <211> 171
 <212> PRT
 <213> Enterobacter cloacae

<400> 7070
 Ser Leu Pro Ala Asp Ala Phe Ala Arg Lys Val Ser Arg Leu Thr Ile
 1 5 10 15

Phe Gly Lys Asp Pro Val Met Phe Asp Pro Thr Leu Leu Ile Leu Leu
 20 25 30
 Ala Leu Ala Ala Leu Gly Phe Val Ser His Asn Thr Thr Val Ala Ile
 35 40 45
 Ser Ile Leu Val Leu Ile Ile Val Arg Val Thr Pro Leu Asn Thr Phe
 50 55 60
 Phe Pro Trp Ile Glu Lys Gln Gly Leu Thr Ile Gly Ile Ile Ile Leu
 65 70 75 80
 Thr Ile Gly Val Met Ala Pro Ile Ala Ser Gly Thr Leu Pro Ala Ser
 85 90 95
 Thr Leu Leu His Ser Phe Val Asn Trp Lys Ser Leu Val Ala Ile Ala
 100 105 110
 Val Gly Val Phe Val Ser Trp Leu Gly Gly Arg Gly Val Thr Leu Met
 115 120 125
 Ser Ser Gln Pro Ser Leu Val Ala Gly Leu Leu Val Gly Thr Val Leu
 130 135 140
 Gly Val Ala Leu Phe Arg Gly Val Pro Val Gly Pro Leu Ile Ala Ala
 145 150 155 160
 Gly Leu Val Ser Leu Phe Ile Gly Lys Ser
 165 170

<210> 7071

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 7071

Pro Leu Pro His Pro Leu Ser Glu Glu Ser Ile Lys Leu Ile Leu Phe
 1 5 10 15
 Met Phe Tyr Tyr Asp Arg Ser Leu Asn Phe Gln His Asn Met Gln Ile
 20 25 30
 Gln Arg Ser Ser Ala Trp Glu Ser Thr Cys Leu Met Ser Asp Ile Ile
 35 40 45
 Leu Ala Arg Val Ser Glu Thr Leu Ser Thr Glu Gln Ser Leu Asp Ser
 50 55 60
 Leu Val Arg Gln Leu Leu Glu Met Leu Glu Ile Val Thr Asp Met Glu
 65 70 75 80
 Ser Thr Tyr Leu Thr Lys Ile Asp Ile Asn Ala Arg Leu Gln His Ile
 85 90 95
 Leu Tyr Ala Arg Asn Ser Lys Gln Met Gln Ile Pro Glu Gly Phe Ser
 100 105 110
 Val Pro Trp Asp Glu Thr Leu Cys Lys Arg Ala Met Asp Ser Asp Thr
 115 120 125
 Leu Phe Ser Asn Glu Val Pro Asp Arg Trp Pro Glu Cys Glu Ala Ala
 130 135 140
 Lys Ala Leu Gly Ile Thr Thr Tyr Met Ser Val Pro Val His Leu Ala
 145 150 155 160
 Asp Gly Ser Leu Tyr Gly Thr Leu Cys Ala Ala Ser Thr Ala Gln Lys
 165 170 175
 Gln Phe Ser Glu Arg Gly Glu Gln Val Ile Arg Leu Phe Ala Gly Leu
 180 185 190
 Ile Gly Gln Tyr Ile Gln Lys Glu Ser Leu Val Leu Gln Leu Arg Glu
 195 200 205
 Ala Asn Ala Ala Leu Ile Thr His Ser Tyr Thr Asp Ala Leu Thr Gly
 210 215 220
 Leu Pro Asn Arg Arg Ala Ile Phe Glu Asn Leu Thr Thr
 225 230 235

<210> 7072

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7072

Met Ala Ala Arg Pro Arg Lys His Asn Val Lys Ile Pro Asn Leu Tyr
 1 5 10 15
 Cys Lys Leu Asp Lys Arg Thr Ser Lys Ile Tyr Trp Gln Tyr Arg His
 20 25 30
 Pro Val Thr Gly Ser Phe Ile Gly Phe Gly Thr Asp Asp Glu Ala Ala
 35 40 45
 Lys Ala Ala Ala Ile Glu Met Asn Arg Ile Thr Ala Glu Gln Glu Thr
 50 55 60
 Gln Gln Ser Tyr Ala Leu Ile Asp Met Ala Met Lys Ser Ser Gly Lys
 65 70 75 80
 Lys Asp Gln Asp Ile Arg Val Ser Glu Trp Ile Lys Lys Tyr Ile Glu
 85 90 95
 Ile Gln Met Glu Arg Leu Arg Asp Gly Glu Ile Lys Asn Pro Thr Val
 100 105 110
 Lys Ser Arg Arg Leu Cys Ser Gln Ile Leu Ala Asp Arg Val Pro Asn
 115 120 125
 Leu Arg Leu Lys Asp Val Asp Thr Arg Leu Ile Ala Lys Ile Ile Asp
 130 135 140
 Glu Tyr Lys Ala Glu Gly Lys His Arg Met Gly Gln Leu Ile Arg Ser
 145 150 155 160
 Val Leu Asn Asp Val Phe Lys Glu Ala Gln His Ala Gly Glu Val Asp
 165 170 175
 Pro Gly Tyr Asn Pro Ala Leu Ala Val Lys Asn Pro Ile Ala Lys Val
 180 185 190
 Lys Arg Ser Arg Leu Ser Ile Glu Gln Trp Lys Leu Ile Phe Glu Ser
 195 200 205
 Ala Gly Ser Leu Pro Pro Cys Ala Gln Asn Ser Met Leu Leu Ala Leu
 210 215 220
 Val Thr Gly Gln Arg Ile Gly Asp Ile Val Glu Met Lys Phe Ser Asp
 225 230 235 240
 Ile Trp Asp Asn His Leu His Val Thr Gln Asn Lys Thr Gly Met Lys
 245 250 255
 Leu Ala Ile Pro Leu Asn Leu Arg Cys Asp Ala Ile Gly Leu Thr Leu
 260 265 270
 Ala Asp Val Ile Ser Lys Cys Arg Asp Arg Val Val Ser Pro Tyr Leu
 275 280 285
 Ile His His Val Lys His His Ala Tyr Gly Lys Ala Gly Ser His Val
 290 295 300
 Pro Glu Lys Thr Ile Ser Arg Tyr Phe Lys Glu Ala Arg Asp Lys Ala
 305 310 315 320
 Asn Ile Thr Trp Pro Lys Asp Cys Thr Ala Leu Pro Pro Phe His Glu
 325 330 335
 Gln Arg Ser Leu Ser Ser Arg Thr Tyr Lys Ala Gln Gly Ile Asp Val
 340 345 350
 Lys Thr Leu Leu Gly His Lys Thr Glu Ala Met Ser Val Met Tyr Gly
 355 360 365
 Asp Asp Arg Gly Leu Glu Trp Lys Lys Val Val Ile
 370 375 380

<210> 7073

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7073

Gln Ala Thr Tyr Trp Gln Ile Thr Gly Glu Ile Val Met Ser Asp Asp
 1 5 10 15
 Val Thr Gly Thr Thr Thr His Gln Arg Leu Ile Ser Leu Leu Thr Glu

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<210> 7074
<211> 399
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Thr	Ile	Met	Thr 5	Thr	Ala	Ile	Gln	Pro 10	Ser	Gly	Lys	Gln	Gly 15	Ala
Leu	Leu	Val	Ala 20	Gly	Ile	Leu	Met 25	Ile	Ala	Thr	Thr	Leu	Arg 30	Val	Thr
Phe	Thr	Gly 35	Val	Ala	Pro	Leu	Leu 40	Asp	Thr	Ile	Arg	Gln 45	Asp	Tyr	Gly
Leu	Ser 50	Thr	Ala	Gln	Thr	Gly 55	Leu	Leu	Thr	Thr	Leu	Pro 60	Leu	Leu	Ala
Phe 65	Ala	Phe	Ile	Ser 70	Pro	Leu	Ala	Ala	Gly 75	Val	Ala	Arg	Arg	Leu	Gly 80
Met	Glu	Arg	Ser 85	Leu	Phe	Ile	Ala	Leu	Leu 90	Leu	Ile	Cys	Ile	Gly 95	Ile
Gly	Val	Arg	Ser 100	Leu	Pro	Ser	Ala	Ala 105	Leu	Leu	Phe	Ile	Gly 110	Thr	Ala
Ile	Val	Gly 115	Cys	Gly	Ile	Ala	Leu	Gly 120	Asn	Val	Leu	Leu	Pro 125	Gly	Leu
Ile	Lys 130	Arg	Asp	Phe	Pro	Gly 135	Gln	Val	Ala	Lys	Leu	Thr 140	Gly	Ala	Tyr
Ser 145	Leu	Thr	Met	Gly 150	Ala	Ala	Ala	Ala	Ala	Gly 155	Ser	Ala	Leu	Ile	Val 160
Pro	Leu	Ser	Leu 165	Gly	Ser	Gly	Gly	Trp	His	Gly 170	Ala	Leu	Leu	Met 175	Leu
Met	Phe	Phe	Pro 180	Leu	Val	Ala	Leu	Leu	Leu 185	Trp	Leu	Pro	Gln 190	Trp	Arg
Gln	Arg	Pro 195	Ala	Ala	Thr	Leu	Thr	Gly	Ala	Gly	Ala	Leu	His 205	Asn	Arg
Ala	Ile	Trp 210	Arg	Ser	Ala	Leu	Ala	Trp	Gln	Val	Thr	Leu	Phe	Met	Gly
Ile 225	Asn	Ser	Leu	Ile	Tyr 230	Tyr	Val	Ile	Ile	Gly 235	Trp	Leu	Pro	Ala	Ile 240
Leu	Leu	Ser	His 245	Gly	Tyr	Ser	Glu	Thr	Gln	Ala	Gly	Ser	Met	His	Gly 255
Leu	Leu	Gln	Leu	Ala	Thr	Ala	Val	Pro	Gly	Leu	Ala	Ile	Pro	Leu	Ile

```
<210> 7075
<211> 251
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7076
<211> 89
<212> PRT
<213> Enterobacter cloacae
```

<400> 7076

```

Arg Ile Met Ile Met Lys Tyr Leu Leu Leu Ala Leu Val Val Pro Leu
1      5      10      15
Ala Ala Cys Ser Thr Lys Thr Thr Pro Pro Asp Ala Pro Gln Pro Pro
20      25      30
His Ala Ile Gly Met Ala Asn Pro Ala Ser Val Tyr Cys Leu Glu Lys
35      40      45
Gly Gly Glu Gln Ile Pro Val Gln Ser Pro Gln Gly Val Arg Thr Glu
50      55      60
Cys Lys Leu Pro Gly Gly Glu Val Ile Asp Glu Trp Asp Leu Tyr Arg
65      70      75      80
Arg Asp His Pro Gln Pro Thr Arg
85

```

<210> 7077

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7077

```

Asn Asp Ser Leu Ser Leu Ile Ser Asp Asn Phe Met Tyr Gly Leu Gly
1      5      10      15
Leu Asp Gly Tyr Asp Pro Asp Ser Gln His Asp Ala Ala Val Ala Phe
20      25      30
Arg Ile Arg Val Val Ala Gln Glu Gln Phe Ile Pro Leu His Gln His
35      40      45
Arg Lys Gly Gln Leu Ile Met Ala Leu Gly Gly Ala Ile Thr Cys Glu
50      55      60
Val Glu Ser Ala Met Leu Met Val Pro Pro Gln Tyr Ala Val Trp Ile
65      70      75      80
Pro Gly Gln Thr Pro His Ser Asn Lys Ala Thr Pro Gly Ala Gln Leu
85      90      95
Cys Leu Leu Phe Ile Glu Pro Gly Ala Leu Glu Leu Pro Thr Arg Thr
100      105      110
Cys Thr Leu Lys Ile Ser Pro Leu Val Arg Glu Leu Val Leu Ala Leu
115      120      125
Ala Asp Arg Ser Arg Glu Glu Leu Pro Leu Pro Ala Thr Gly Arg Leu
130      135      140
Val Asp Val Leu Phe Asp Glu Leu Pro Leu Gln Pro Gln Glu His Leu
145      150      155      160
Gln Leu Pro Val Ser Pro His Pro Lys Ile Arg Leu Met Ser Glu Thr
165      170      175
Met Ala Asn Glu Pro Ala Ala Trp Gln Thr Leu Ala Gln Trp Ala Ser
180      185      190
His Phe Ala Met Ser Glu Arg Asn Leu Ala Arg Leu Val Val Lys Glu
195      200      205
Thr Gly Leu Ser Phe Arg Arg Trp Arg His Gln Leu Gln Leu Ile Val
210      215      220
Ala Leu Gln Phe Leu Ile Gly Gly Lys Ser Val Gln Gln Ala Ala Gln
225      230      235      240
Ala Leu Gly Tyr Asp Ser Thr Thr Ala Phe Ile Thr Met Phe Lys Lys
245      250      255
Gly Leu Gly Gln Thr Pro Ala Arg Tyr Ile Ala Ser Leu Thr Thr Thr
260      265      270
Ser Arg
275

```

<210> 7078

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7078

```

Thr Gln Arg Pro Ala Asp Cys Thr Phe Thr Asn His Ala Phe Asp Ser
1      5      10      15
Leu Ile Pro Ser Leu Lys Phe Lys Lys Tyr Asp Ala Val Ile Ser Gly
20      25      30
Met Asp Ile Thr Pro Glu Arg Ser Lys Gln Val Ala Phe Thr Asp Pro
35      40      45
Tyr Tyr Ala Asn Ser Ala Val Val Ile Ala Lys Lys Gly Ala Tyr Lys
50      55      60
Ser Phe Asp Glu Leu Lys Gly Lys Arg Ile Gly Met Glu Asn Gly Thr
65      70      75      80
Thr His Gln Lys Tyr Leu Gln Asp Lys His Pro Glu Val Lys Thr Val
85      90      95
Ala Tyr Asp Ser Tyr Gln Asn Ala Ile Ile Asp Leu Lys Asn Gly Arg
100     105     110
Ile Asp Gly Val Phe Gly Asp Thr Ala Val Val Asn Glu Trp Leu Lys
115     120     125
Thr Asn Pro Gln Leu Gly Thr Ala Thr Glu Lys Val Thr Asp Pro Gln
130     135     140
Tyr Phe Gly Thr Gly Leu Gly Ile Ala Val Arg Pro Asp Asn Lys Ala
145     150     155     160
Leu Leu Glu Lys Leu Asn Gly Ala Leu Lys Ala Ile Lys Ala Asp Gly
165     170     175
Thr Tyr Gln Lys Ile Ser Glu Gln Trp Phe Pro Gln
180     185

```

<210> 7079

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 7079

```

Arg Gln Val Ile Val His Tyr Arg Cys Tyr Ser Pro Ser Gly Leu Phe
1      5      10      15
Phe Glu Glu Arg Glu Met Phe Ala Val Ile Phe Gly Arg Pro Gly Cys
20      25      30
Pro Tyr Cys Val Arg Ala Lys Glu Leu Ala Glu Lys Leu Thr Glu Glu
35      40      45
Arg Asp Asp Phe Asn Phe Arg Tyr Val Asp Ile His Ala Glu Gly Ile
50      55      60
Thr Lys Ala Asp Leu Glu Lys Thr Val Gly Lys Pro Val Glu Thr Val
65      70      75      80
Pro Gln Ile Phe Leu Asp Gln Lys His Ile Gly Gly Cys Thr Asp Phe
85      90      95
Glu Ala Tyr Ala Lys Glu His Leu Gly Leu Phe Ala Ala Gln
100     105     110

```

<210> 7080

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7080

```

Leu Arg Ile Pro Val Asn Tyr Ile Asp Gln Phe Ile Asn Phe Val Ser
1      5      10      15
Thr Leu Tyr Thr Pro Arg Arg Ala Cys Thr Thr Leu Phe Met Ile Cys
20      25      30
Gly Gly Val Leu Ser Leu Cys Lys Ile Leu Pro Leu Leu His Leu Trp
35      40      45

```

Leu Thr Thr Ala Ile Lys Pro Ile Ala Gln Asn Tyr Glu Thr Tyr Ile
 50 55 60
 Leu Leu Ile Ser Leu Val Ile Gly Val Ser Leu Gly Ile Val Val Phe
 65 70 75 80
 Ser Ile Val Asp Leu Ile Val Leu Thr Ile Tyr Glu His Leu Ile Ser
 85 90 95
 Lys Lys Lys Lys Ser Gln Ser Glu Leu Lys Ala Ile Lys Glu Lys Asn
 100 105 110
 Ile Arg Asp Glu Val Ile Phe Ser Asn Phe Lys Thr Ala Tyr Phe His
 115 120 125
 Leu Ser Ile Asp Lys Ile Asn Ile Ile Arg Ser Leu Ile Thr Phe Pro
 130 135 140
 Ser Leu Ser Phe His Ser Glu His Glu Asp Val Lys Phe Leu Glu Lys
 145 150 155 160
 Ser Gly Trp Ile Glu Ala Leu Thr Tyr Ile Ser Asp Glu Glu Lys Val
 165 170 175
 Tyr Gln Leu Asn Gln Thr Ile Arg Leu Tyr Ala Asp Asp Arg Trp Asn
 180 185 190
 Glu Glu Val Asn Phe Asn Thr Asp His Phe His Ser Phe Asp Ala Glu
 195 200 205
 Thr Ala Ile Ser Ile Ile Asn Ala Met Ser Asp Val Lys Ile Lys Ala
 210 215 220
 Glu Leu Asp Glu Phe Asn Phe Ser Phe Tyr Lys Ser Asp Ile Glu Lys
 225 230 235 240
 Cys Phe Glu Val Ser Glu Phe Thr Glu Thr Leu Tyr Ser Leu Arg Phe
 245 250 255
 Lys Glu Arg Tyr Glu Lys Lys Phe Ser Glu Leu His Leu Lys Pro Phe
 260 265 270
 Arg Ser Glu Arg Leu Phe Ser Ile Lys Val Arg Glu Asn Ile Pro Asp
 275 280 285
 Leu Asp Ile Pro Phe
 290

<210> 7081

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7081

Cys Leu Gly Tyr Leu Ser Gly Ser Arg Glu Met Gln Ser Asp Ser Leu
 1 5 10 15
 Thr Leu Lys Thr Val Ala Gln Ile Val Leu Ser Phe Asn Asn Leu Leu
 20 25 30
 Val Asn Lys Lys Leu Ala Ser Val Asn Ile Asn Val Ala Asp Leu Leu
 35 40 45
 Asn Gly Asn Tyr Ile Leu Leu Leu Phe Val Val Leu Ala Leu Gly Leu
 50 55 60
 Cys Leu Gly Lys Leu Arg Leu Gly Ser Val Gln Leu Gly Asn Ser Ile
 65 70 75 80
 Gly Val Leu Val Val Ser Leu Leu Leu Gly Gln Gln His Phe Ser Ile
 85 90 95
 Asn Thr Asp Ala Leu Asn Leu Gly Phe Met Leu Phe Ile Phe Cys Val
 100 105 110
 Gly Val Glu Ala Gly Pro Asn Phe Phe Ser Ile Phe Phe Arg Asp Gly
 115 120 125
 Lys Asn Tyr Leu Met Leu Ala Leu Val Met Val Gly Ser Ala Leu Leu
 130 135 140
 Ile Ala Leu Gly Leu Gly Lys Leu Phe Gly Trp Asp Ile Gly Leu Thr
 145 150 155 160
 Ala Gly Met Leu Ala Gly Ser Met Thr Ser Thr Pro Val Leu Val Gly
 165 170 175

Ala	Gly	Asp	Thr	Leu	Arg	His	Ser	Gly	Met	Ala	Gly	Thr	Pro	Leu	Ser
			180					185					190		
Ser	Ala	Leu	Asp	Asn	Leu	Ser	Leu	Gly	Tyr	Ala	Leu	Thr	Tyr	Leu	Ile
		195					200					205			
Gly	Leu	Val	Ser	Leu	Ile	Val	Gly	Ala	Arg	Tyr	Leu	Pro	Lys	Leu	Gln
	210					215					220				
His	Gln	Asp	Leu	Gln	Thr	Ser	Ala	Gln	Thr	Ile	Ala	Arg	Glu	Arg	Gly
225					230					235					240
Leu	Asp	Thr	Asp	Ser	Lys	Arg	Lys	Val	Tyr	Leu	Pro	Val	Ile	Arg	Ala
			245						250					255	
Tyr	Arg	Val	Gly	Pro	Glu	Leu	Val	Ala	Trp	Thr	Asp	Gly	Lys	Asn	Leu
		260						265					270		
Arg	Glu	Leu	Gly	Ile	Tyr	Arg	Gln	Thr	Gly	Cys	Tyr	Ile	Glu	Arg	Ile
		275					280					285			
Arg	Arg	Asn	Gly	Ile	Leu	Ala	Asn	Pro	Asp	Gly	Asp	Ala	Val	Leu	Gln
		290				295					300				
Met	Gly	Asp	Asp	Ile	Ala	Leu	Val	Gly	Tyr	Pro	Asp	Ala	His	Ala	Arg
305					310					315					320
Leu	Asp	Pro	Ser	Phe	Arg	Asn	Gly	Lys	Glu	Val	Phe	Asp	Arg	Asp	Leu
				325					330					335	
Leu	Asp	Met	Arg	Ile	Val	Thr	Glu	Glu	Ile	Val	Val	Lys	Asn	His	Asn
		340						345					350		
Ala	Val	Gly	Arg	Arg	Leu	Ala	Gln	Leu	Lys	Leu	Thr	Asp	His	Gly	Cys
		355					360					365			
Phe	Leu	Asn	Arg	Val	Ile	Arg	Ser	Gln	Ile	Glu	Met	Pro	Ile	Asp	Asp
	370					375					380				
Asn	Val	Val	Leu	Asn	Lys	Gly	Asp	Val	Leu	Gln	Val	Ser	Gly	Asp	Ala
385					390					395					400
Arg	Arg	Val	Lys	Thr	Val	Ala	Asp	Arg	Ile	Gly	Phe	Ile	Ser	Ile	His
			405						410					415	
Ser	Gln	Val	Thr	Asp	Leu	Leu	Ala	Phe	Cys	Ala	Phe	Phe	Ile	Val	Gly
			420					425					430		
Leu	Met	Ile	Gly	Met	Ile	Thr	Phe	Gln	Phe	Ser	Asn	Phe	Ser	Phe	Gly
	435						440					445			
Ile	Gly	Asn	Ala	Ala	Gly	Leu	Leu	Phe	Ala	Gly	Ile	Met	Leu	Gly	Phe
	450				455						460				
Leu	Arg	Ala	Asn	His	Pro	Thr	Phe	Gly	Tyr	Ile	Pro	Gln	Gly	Ala	Leu
465					470					475					480
Asn	Met	Val	Lys	Glu	Phe	Gly	Leu	Met	Val	Phe	Met	Ala	Gly	Val	Gly
			485						490					495	
Leu	Ser	Ala	Gly	Ser	Gly	Ile	Gly	Asn	Gly	Leu	Gly	Ala	Val	Gly	Trp
		500						505					510		
Gln	Met	Leu	Val	Ser	Gly	Leu	Ile	Val	Ser	Leu	Val	Pro	Val	Val	Ile
		515					520					525			
Cys	Phe	Leu	Phe	Gly	Ala	Tyr	Val	Leu	Arg	Met	Asn	Arg	Ala	Leu	Leu
	530					535					540				
Phe	Gly	Ala	Met	Met	Gly	Ala	Arg	Thr	Cys	Ala	Pro	Ala	Met	Glu	Ile
545					550					555					560
Ile	Ser	Asp	Thr	Ala	Arg	Ser	Asn	Ile	Pro	Ala	Leu	Gly	Tyr	Ala	Gly
			565						570					575	
Thr	Tyr	Ala	Ile	Ala	Asn	Val	Leu	Leu	Thr	Leu	Ala	Gly	Thr	Leu	Ile
			580					585					590		
Ile	Ile	Ile	Trp	Pro	Gly	Leu	Gly								
		595					600								

<210> 7082

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 7082

Pro Lys Val Gly Trp Phe Ala Arg Arg Lys Pro Ser Met Ile Pro Ala
 1 5 10 15
 Asn Ser Arg Pro Ala Ala Leu Pro Met Pro Lys Leu Lys Leu Leu Asn
 20 25 30
 Trp Lys Val Ile Ile Pro Ile Ile Arg Pro Thr Met Lys Lys Ala Gln
 35 40 45
 Lys Ala Asn Arg Ser Val Thr Trp Leu Trp Ile Glu Ile Lys Pro Ile
 50 55 60
 Arg Ser Ala Thr Val Leu Thr Arg Arg Ala Ser Pro Leu Thr Cys Asn
 65 70 75 80
 Thr Ser Pro Leu Leu Ser Thr Thr Leu Ser Ser Ile Gly Ile Ser Ile
 85 90 95
 Trp Leu Arg Ile Thr Arg Leu Arg Lys Gln Pro Trp Ser Val Ser Phe
 100 105 110
 Ser Cys Ala Arg Arg Arg Pro Thr Ala Leu Trp Phe Phe Thr Thr Ile
 115 120 125
 Ser Ser Val Thr Ile Arg Met Ser Ser Arg Ser Arg Ser Asn Thr Ser
 130 135 140
 Phe Pro Leu Arg Lys Leu Gly Ser Arg Arg Ala Trp Ala Ser Gly
 145 150 155 160

<210> 7083

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7083

Gln Ser Val Ser Leu Ile Val Ile Ala Thr Asp Ser His Leu Leu Ser
 1 5 10 15
 His Asp Phe Cys Ala Cys Phe Gly Lys Asp Cys Arg Ile Ala Leu Ser
 20 25 30
 Asp Trp Ala Ser Thr Gly Arg Phe Leu Tyr Leu Ile Glu Ile Ser Gln
 35 40 45
 Glu Asp Ser Leu Asn Phe Lys Arg Asn Trp Ala Gly Val Ile Ser Cys
 50 55 60
 Phe Leu Leu Phe Thr Val Val Cys Met Ser Leu Ala Phe Asn Val Lys
 65 70 75 80
 Gly Ala Phe Arg Ala Ser Gly His Pro Glu Leu Gly Leu Leu Phe Phe
 85 90 95
 Ile Leu Pro Gly Val Val Ala Gly Phe Leu Ser Arg Lys Gly Glu Val
 100 105 110
 Val Met Pro Leu Ile Gly Ala Met Leu Ala Ala Pro Leu Cys Leu Leu
 115 120 125
 Leu Met Arg Val Leu Phe Leu Ser Ser Arg Ser Val Trp Gln Glu Val
 130 135 140
 Ala Trp Leu Leu Ser Gly Val Phe Trp Cys Ala Leu Gly Ala Leu Cys
 145 150 155 160
 Phe Leu Phe Thr Arg Ser Leu Leu Gln Gln Arg Lys His Arg Lys
 165 170 175

<210> 7084

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 7084

Arg Val Thr Ala Thr Thr Ala Ala Thr Pro Gly Ala Thr Ile Phe Val
 1 5 10 15
 Ala Pro Leu Ser Arg Arg Thr Ala Arg Ser Phe Ser Thr Thr Cys Thr
 20 25 30
 Asn Arg Ala Gly Gln Arg Gly Ser Pro Phe Leu Leu Arg Leu Val Tyr

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<210> 7085
<211> 171
<212> PRT
<213> Enterobacter cloacae
```

Ser	Gly	Gln	Arg	Phe	Tyr	Leu	Arg	Gly	Cys	Thr	Ala	Met	Asp	Leu	Gln
1				5					10					15	
Val	Val	Pro	Thr	Leu	Asp	Thr	Leu	Arg	Gln	Trp	Leu	Asp	Asp	Ala	Gly
			20					25					30		
Ile	Thr	Phe	Glu	Cys	Asp	Ser	Cys	Gln	Ala	Leu	His	Leu	Pro	His	
		35				40					45				
Met	Gln	Asn	Phe	Asp	Gly	Ile	Phe	Asp	Ala	Lys	Ile	Asp	Leu	Ile	Asn
	50					55					60				
Asp	Val	Ile	Leu	Phe	Ser	Ala	Leu	Ala	Glu	Val	Lys	Pro	Ser	Ala	Leu
65					70					75				80	
Leu	Ala	Leu	Ala	Ser	Asp	Leu	Ser	Ala	Ile	Asn	Ala	Ser	Ser	Leu	Thr
				85					90					95	
Val	Lys	Ala	Phe	Leu	Asp	Ile	Gln	Asp	Asp	Asn	Leu	Pro	Lys	Leu	Val

Cys Ala Ala Tyr Asp Ala Ala Leu Phe Phe Arg Glu Val Lys Thr Leu
 1 5 10 15
 Gly Phe Leu Gln Lys Thr Arg His Ser His Ala Arg Pro Asn Val Pro
 20 25 30
 Ala Leu Val Gln Val Ala Ala Leu Ala Ile Ile Met Ile Arg Cys Leu
 35 40 45
 Asp Val Leu Met Ile Met Asn Thr Leu Gly Pro Arg Gly Met Gly Glu
 50 55 60
 Phe Ile His Arg Ser Ala Gln Thr Trp Asn Leu Thr Leu Val Phe Leu
 65 70 75 80
 Ser Ser Leu Met Leu Val Phe Ile Glu Ile Tyr Cys Ala Phe Ser Leu
 85 90 95
 Val Lys Gly Arg Asn Trp Ala Arg Trp Val Tyr Leu Leu Thr Gln Ile
 100 105 110
 Thr Ala Ala Gly Tyr Leu Trp Ala Ala Ser Leu Gly Tyr Gly Tyr Pro
 115 120 125
 Glu Leu Phe Ser Ile Pro Gly Glu Ser Arg Arg Glu Ile Phe His Ser
 130 135 140
 Leu Val Met Gln Lys Leu Pro Asp Met Leu Val Leu Phe Leu Leu Phe
 145 150 155 160
 Ala Pro Ala Ser Ser Arg Arg Phe Phe Arg Leu Gln
 165 170

<210> 7088

<211> 514

<212> PRT

<213> Enterobacter cloacae

<400> 7088

Lys Lys Met Pro Pro Ser Arg Arg Ser Phe Ala Pro Ser Gly Ala Lys
 1 5 10 15
 Ala Thr Asn Ser Arg Ser Arg Ile Met Met Arg Arg Phe Ser Leu Ser
 20 25 30
 Gln Arg Leu Thr Leu Leu Phe Thr Val Leu Leu Leu Cys Ala Thr
 35 40 45
 Val Ala Cys Ala Val Gln Leu Tyr Ile Ser Met Gln Tyr Gly Asn Ala
 50 55 60
 Met Val Gln Arg Leu Ser Gly Gly Leu Ala Gln Gln Ile Val Gln Arg
 65 70 75 80
 Glu Ala Ile Leu Asp Ser Gln Gly Arg Val Asp Arg Ser Ala Leu Lys
 85 90 95
 Pro Leu Phe Asp Arg Leu Met Thr Phe Asn Pro Ser Val Glu Leu Tyr
 100 105 110
 Val Val Ser Pro Asp Gly Asp Ile Leu Ala Asp Ala Ala Pro Pro Gly
 115 120 125
 His Ile Gln Arg Gln Lys Ile Asp Leu Ala Pro Ile Gln Asn Phe Leu
 130 135 140
 Ser Gly Thr Val Met Pro Val Phe Gly Asp Asp Pro Arg Ser Gln Asn
 145 150 155 160
 Lys Lys Val Phe Ser Ala Thr Pro Leu Arg Gln Asp Gly Glu Leu Lys
 165 170 175
 Gly Tyr Leu Tyr Ile Ile Leu Gln Gly Glu Glu Ser Asn Ala Leu Ala
 180 185 190
 Glu Met Ala Trp His Lys Ala Leu Trp Ser Thr Ala Leu Trp Ser Met
 195 200 205
 Leu Leu Val Ala Leu Phe Gly Leu Leu Ala Gly Val Leu Leu Trp Tyr
 210 215 220
 Trp Val Thr Arg Pro Val Lys Glu Leu Thr Leu Asp Val Ala Gly Leu
 225 230 235 240
 Glu Gln Asp Ser Ile Ser Ala Ile Lys Gln Leu Ala Ala Gln Pro Leu
 245 250 255

Glu Pro Ala Gly Gln Asp Glu Val Ala Ile Leu Arg Asn Thr Phe Ile
 260 265 270
 Glu Leu Ala Arg Lys Ile Thr Ser Gln Trp Asp Arg Leu Ala Asp Ser
 275 280 285
 Asp Arg Gln Arg Arg Glu Phe Ile Ala Asn Ile Ser His Asp Leu Arg
 290 295 300
 Thr Pro Leu Thr Ser Leu Leu Gly Tyr Leu Glu Thr Leu Ser Leu Lys
 305 310 315 320
 Ser Ala Thr Leu Ser Pro Gln Glu His Gln Gln Tyr Leu Ala Thr Ala
 325 330 335
 Leu Arg Gln Gly Gln Lys Val Arg His Leu Ser Gln Gln Leu Phe Glu
 340 345 350
 Leu Ala Arg Leu Glu His Gly Gly Ile Lys Pro Gln Arg Glu Arg Phe
 355 360 365
 Ala Met Ala Glu Leu Ile Ser Asp Val Ala Gln Lys Phe Glu Leu Thr
 370 375 380
 Ala Arg Thr Arg Glu Val Asn Leu Arg Ile Asp Val Pro Gly Arg Leu
 385 390 395 400
 Pro Leu Val Asn Ala Asp Val Ser Met Ile Glu Arg Val Val Thr Asn
 405 410 415
 Leu Leu Asp Asn Ala Ile Arg His Thr Pro Ser Gly Gly Glu Ile Arg
 420 425 430
 Leu Ala Val Trp Gln Glu Asn Glu Arg Leu Gln Val Glu Val Ala Asp
 435 440 445
 Asn Gly Thr Gly Val Asp Ala Ser Leu Arg Asp Asp Leu Phe Gln Arg
 450 455 460
 Pro Ser Ala Leu Asn Pro Gln Ala Ser Arg Glu Asn Arg Gly Gly Leu
 465 470 475 480
 Gly Leu Leu Ile Val Lys Arg Met Leu Glu Leu His Gly Gly Gly Ile
 485 490 495
 Arg Leu Met Glu Ser Val Ser Gly Ala Arg Phe Arg Phe Phe Val Pro
 500 505 510
 Leu

<210> 7089

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7089

Ala Gly Gln Ala Leu Ala Pro Pro Gly Asp Ala His Pro Asp Gly Ala
 1 5 10 15
 Phe Ala Pro Val Leu Ile Tyr Ala Gly Glu His Pro Val Asn Asp Ala
 20 25 30
 Ile Pro Arg Pro Gln Ala Lys Val Arg Lys Ala Leu Thr Pro Leu Leu
 35 40 45
 Glu Ile Arg Asn Leu Thr Lys Ser Phe Asp Gly Gln His Ala Val Asp
 50 55 60
 Asp Val Ser Leu Thr Ile Tyr Lys Gly Glu Ile Phe Ala Leu Leu Gly
 65 70 75 80
 Ala Ser Gly Cys Gly Lys Ser Thr Leu Leu Arg Met Leu Ala Gly Phe
 85 90 95
 Glu Gln Pro Thr Ala Gly Gln Ile Val Leu Asp Gly Val Asp Leu Ser
 100 105 110
 Ser Val Pro Pro Tyr Gln Arg Pro Ile Asn Met Met Phe Gln Ser Tyr
 115 120 125
 Ala Leu Phe Pro His Met Thr Val Glu Gln Asn Ile Ala Phe Gly Leu
 130 135 140
 Lys Gln Asp Lys Leu Pro Lys Ala Glu Ile Thr Ala Arg Val Ala Glu
 145 150 155 160


```

Met Leu Ser Leu Val His Met Gln Glu Phe Ala Lys Arg Lys Pro His
      165      170      175
Gln Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Ala Arg Ser Leu
      180      185      190
Ala Lys Arg Pro Lys Leu Leu Leu Asp Glu Pro Met Gly Ala Leu
      195      200      205
Asp Lys Lys Leu Arg Asp Arg Met Gln Leu Glu Val Val Asp Ile Leu
      210      215      220
Glu Arg Val Gly Val Thr Cys Val Met Val Thr His Asp Gln Glu Glu
      225      230      235      240
Ala Met Thr Met Ala Gly Arg Ile Ala Ile Met Asn Arg Gly Lys Phe
      245      250      255
Val Gln Ile Gly Glu Pro Glu Glu Ile Tyr Glu His Pro Thr Thr Arg
      260      265      270
Tyr Ser Ala Glu Phe Ile Gly Ser Val Asn Val Phe Glu Gly Leu Leu
      275      280      285
Lys Glu Arg Gln Asp Asp Gly Leu Val Ile Glu Ser Pro Gly Leu Val
      290      295      300
His Pro Leu Lys Val Asp Ser Asp Asn Ser Val Val Asp Asn Val Pro
      305      310      315      320
Val Tyr Val Ala Leu Arg Pro Glu Lys Ile Met Leu Cys Asp Glu Pro
      325      330      335
Pro Ala Asp Gly Tyr Asn Phe Ala Val Gly Glu Val Val His Ile Ala
      340      345      350
Tyr Leu Gly Asp Leu Ser Ile Tyr His Val Arg Leu Lys Ser Gly Gln
      355      360      365
Met Leu Ser Ala Gln Leu Gln Asn Glu His Arg Tyr Arg Lys Gly Gln
      370      375      380
Pro Thr Trp Gly Asp Glu Val Ser Leu Cys Trp Asp Ala Asp Ser Cys
      385      390      395      400
Val Val Leu Thr Val
      405

```

<210> 7090

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7090

```

Gly Ala Val Met Ser Thr Leu Glu Pro Pro Ala Arg Val Lys Lys Pro
1      5      10      15
Gly Gly Phe Ala Leu Trp Leu Ala Arg Met Gln Met Ala His Gly Arg
      20      25      30
Lys Leu Val Ile Ala Met Pro Tyr Ile Trp Leu Ile Leu Leu Phe Leu
      35      40      45
Leu Pro Phe Leu Ile Val Phe Lys Ile Ser Leu Ala Glu Met Ala Arg
      50      55      60
Ala Ile Pro Pro Tyr Thr Asp Leu Trp Glu Trp Ala Asp Gly Gln Leu
      65      70      75      80
Thr Leu Thr Val Asn Leu Gly Asn Phe Leu Gln Leu Thr Asp Asp Pro
      85      90      95
Leu Tyr Phe Glu Ala Tyr Leu Gln Ser Leu Gln Val Ala Ala Ile Ser
      100      105      110
Thr Ile Cys Cys Leu Leu Met Gly Tyr Pro Leu Ala Trp Ala Val Ala
      115      120      125
His Ser Lys Pro Ser Thr Arg Asn Ile Leu Leu Leu Val Ile Leu
      130      135      140
Pro Ser Trp Thr Ser Phe Leu Ile Arg Val Tyr Ala Trp Met Gly Ile
      145      150      155      160
Leu Lys Asn Asn Gly Ile Leu Asn Asn Phe Leu Leu Trp Leu Gly Val
      165      170      175

```

Ile	Asp	Gln	Pro	Leu	Thr	Ile	Leu	His	Thr	Asn	Leu	Ala	Val	Tyr	Ile
			180					185					190		
Gly	Ile	Val	Tyr	Ala	Tyr	Leu	Pro	Phe	Met	Val	Leu	Pro	Ile	Tyr	Thr
		195					200					205			
Ala	Leu	Thr	Arg	Ile	Asp	Tyr	Ser	Leu	Val	Glu	Ala	Ser	Leu	Asp	Leu
		210				215					220				
Gly	Ala	Arg	Pro	Leu	Lys	Thr	Phe	Phe	Ser	Val	Ile	Val	Pro	Leu	Thr
225					230					235					240
Lys	Gly	Gly	Ile	Ile	Ala	Gly	Ser	Met	Leu	Val	Phe	Ile	Pro	Ala	Val
			245						250					255	
Gly	Glu	Phe	Val	Ile	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Asp	Ser	Ile	Met
			260					265					270		
Ile	Gly	Arg	Val	Leu	Trp	Gln	Glu	Phe	Phe	Asn	Asn	Arg	Asp	Trp	Pro
		275					280					285			
Val	Ala	Ser	Ala	Val	Ala	Ile	Val	Met	Leu	Leu	Leu	Leu	Ile	Val	Pro
		290				295					300				
Ile	Met	Trp	Phe	His	Lys	His	Gln	Gln	Lys	Gln	Met	Gly	Asp	His	Gly
305					310					315					320

<210> 7091

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7091

Gly	Phe	His	Met	Gln	Cys	Ala	Leu	Tyr	Asp	Ala	Gly	Arg	Cys	Arg	Ser
1				5					10					15	
Cys	Gln	Trp	Ile	Glu	Gln	Pro	Val	Ser	Gln	Gln	Leu	Thr	Ala	Lys	Met
			20					25					30		
Ala	Asn	Leu	Gln	Gln	Leu	Leu	Ala	Ala	His	Ala	Val	Gly	Glu	Trp	Cys
		35					40					45			
Ala	Pro	Val	Ser	Gly	Pro	Glu	Gln	Gly	Phe	Arg	Asn	Lys	Ala	Lys	Met
		50				55				60					
Val	Val	Ser	Gly	Ser	Val	Glu	Lys	Pro	Leu	Leu	Gly	Met	Leu	His	Arg
65				70					75					80	
Asp	Gly	Thr	Pro	Glu	Asp	Leu	Thr	Asp	Cys	Pro	Leu	Tyr	Pro	Ala	Ser
			85					90					95		
Phe	Glu	Pro	Val	Phe	Ser	Ala	Leu	Lys	Pro	Phe	Ile	Ala	Arg	Ala	Gly
			100					105					110		
Leu	Thr	Pro	Tyr	Asn	Val	Ala	Arg	Arg	Arg	Gly	Glu	Leu	Lys	Tyr	Leu
		115					120					125			
Leu	Leu	Thr	Glu	Ser	Gln	Ile	Asp	Gly	Gly	Met	Met	Leu	Arg	Phe	Val
		130				135					140				
Leu	Arg	Ser	Glu	Thr	Lys	Leu	Glu	Gln	Leu	Arg	Ala	Ala	Leu	Pro	Gly
145					150					155					160
Leu	Gln	Gln	Gln	Leu	Pro	Gln	Leu	Lys	Val	Ile	Thr	Ala	Asn	Ile	Gln
			165						170					175	
Pro	Val	His	Met	Ala	Ile	Met	Glu	Gly	Glu	Lys	Glu	Ile	Phe	Phe	Thr
			180					185					190		
Glu	Gln	His	Ala	Leu	Glu	Glu	Arg	Phe	Asn	Gly	Val	Pro	Leu	Trp	Ile
		195					200					205			
Arg	Pro	Gln	Ser	Phe	Phe	Gln	Thr	Asn	Pro	Thr	Val	Ala	Ser	Ala	Leu
		210				215					220				
Tyr	Thr	Thr	Ala	Arg	Asp	Trp	Val	Arg	Ala	Leu	Gln	Val	His	His	Met
225					230					235					240
Trp	Asp	Leu	Phe	Cys	Gly	Val	Gly	Gly	Phe	Gly	Leu	His	Cys	Ala	Thr
			245						250					255	
Pro	Asp	Met	Gln	Leu	Thr	Gly	Ile	Glu	Ile	Ser	Ala	Glu	Ala	Ile	Ala
			260					265					270		

Cys Ala Lys Gln Ser Ala Ala Glu Leu Gly Leu Thr Asn Leu His Phe
 275 280 285
 Gln Ala Leu Asp Ser Thr Gln Phe Ala Thr Gly Gln Gly Asn Val Pro
 290 295 300
 Glu Leu Val Leu Val Asn Pro Pro Arg Arg Gly Ile Gly Gln Ala Leu
 305 310 315 320
 Cys Asp Tyr Leu Ser Gln Met Ala Pro Glu Tyr Ile Val Tyr Ser Ser
 325 330 335
 Cys Asn Ala Gln Thr Met Ala Lys Asp Ile Ala Ser Leu Pro Gly Tyr
 340 345 350
 Arg Ile Ala Arg Val Gln Leu Phe Asp Met Phe Pro His Thr Ala His
 355 360 365
 Tyr Glu Val Leu Thr Leu Leu Thr Lys Ala
 370 375

<210> 7092

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7092

Tyr Ser Gln Ala Met Phe Arg Gln Leu His Gln Val Glu His Cys Leu
 1 5 10 15
 Tyr Trp Leu Pro Tyr Val Leu Arg Asn Thr Lys Arg Asp Lys Met Thr
 20 25 30
 Pro Thr Ile Asp Leu Leu Arg Ser His Arg Ser Ile Arg His Phe Thr
 35 40 45
 Asp Glu Pro Ile Thr Gln Ala Gln Arg Asp Ala Ile Ile Asp Ser Ala
 50 55 60
 Arg Gly Thr Ser Ser Ser Phe Leu Gln Cys Ser Ser Ile Ile Arg
 65 70 75 80
 Ile Thr Asp Pro Ala Met Arg Glu Gln Leu Val Thr Leu Thr Gly Gly
 85 90 95
 Gln Lys His Val Ala Gln Ala Ala Glu Phe Trp Val Phe Cys Ala Asp
 100 105 110
 Phe Asn Arg His Leu Gln Ile Cys Pro Glu Ala Glu Leu Gly Leu Ala
 115 120 125
 Glu Gln Leu Leu Leu Gly Val Val Asp Thr Ala Leu Met Ala Gln Asn
 130 135 140
 Ala Phe Thr Ala Ala Glu Ser Leu Gly Leu Gly Gly Val Tyr Ile Gly
 145 150 155 160
 Gly Leu Arg Asn Asn Ile Glu Ser Val Thr Glu Leu Leu Lys Leu Pro
 165 170 175
 Lys His Val Leu Pro Leu Phe Gly Leu Cys Leu Gly Trp Pro Ala Asp
 180 185 190
 Asn Pro Asp Leu Lys Pro Arg Ile Pro Ala Ala Met Leu Val His Glu
 195 200 205
 Asn His Tyr Gln Pro Val Asp Gln Asp Val Leu His Gln Tyr Asp Glu
 210 215 220
 Glu Leu Ala Asn Tyr Tyr Leu Thr Arg Asp Ser Asn Asn Arg Arg Asp
 225 230 235 240
 Thr Trp Ser Asp His Ile Arg Arg Thr Ile Ile Lys Glu Asn Arg Pro
 245 250 255
 Phe Ile Leu Asp Tyr Leu His Lys Gln Gly Trp Ala Thr Arg
 260 265 270

<210> 7093

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7093

```

Arg Thr Phe Arg Arg Asn Asn Asn Met Ile Ala Leu Asn Lys Lys Trp
1      5      10      15
Leu Ser Gly Leu Val Ala Gly Ala Leu Met Ala Val Ser Ala Gly Thr
20      25      30
Leu Ala Ala Glu Gln Lys Thr Leu His Val Tyr Asn Trp Ser Asp Tyr
35      40      45
Ile Ala Pro Asp Thr Val Ala Asn Phe Glu Lys Glu Thr Gly Ile Lys
50      55      60
Val Val Tyr Asp Val Phe Asp Ser Asn Glu Val Leu Glu Gly Lys Leu
65      70      75      80
Met Ala Gly Ser Thr Gly Phe Asp Leu Val Val Pro Ser Ala Ser Phe
85      90      95
Leu Glu Arg Gln Leu Thr Ala Gly Val Phe Gln Pro Leu Asp Lys Ser
100     105     110
Lys Leu Pro Asn Trp Lys Asn Leu Asp Pro Asp Val Leu Lys Leu Val
115     120     125
Ala Lys His Asp Pro Asp Asn Lys Tyr Ala Met Pro Tyr Leu Trp Ala
130     135     140
Thr Thr Gly Ile Gly Tyr Asn Val Asp Lys Val Lys Ala Ala Leu Gly
145     150     155     160
Pro Asp Val Lys Leu Asp Ser Trp Asp Val Val Leu Lys Pro Glu Asn
165     170     175
Leu Glu Lys Leu Lys Ser Cys Gly Val Ser Phe Leu Asp Ala Pro Glu
180     185     190
Glu Ile Phe Ala Thr Val Leu Asn Tyr Leu Gly Lys Asp Pro Asn Ser
195     200     205
Ser Lys Ala Asp Asp Tyr Thr Gly Pro Ala Thr Asp Leu Leu Leu Lys
210     215     220
Leu Arg Pro Asn Ile Arg Tyr Phe His Ser Ser Gln Tyr Ile Asn Asp
225     230     235     240
Leu Ala Asn Gly Asp Ile Cys Val Ala Ile Gly Trp Ala Gly Asp Val
245     250     255
Trp Gln Ala Ala Asn Arg Ala Lys Glu Ala Lys Asn Gly Val Asn Val
260     265     270
Ser Tyr Phe Ile Pro Lys Glu Gly Ala Leu Ala Phe Phe Asp Val Phe
275     280     285
Ala Met Pro Ala Asp Ala Lys Asn Lys Glu Glu Ala Tyr Gln Phe Leu
290     295     300
Asn Tyr Leu Met Arg Pro Asp Val Ile Ala His Ile Ser Asp His Val
305     310     315     320
Tyr Tyr Ala Asn Gly Asn Lys Ala Ser Glu Pro Leu Val Ser Glu Glu
325     330     335
Ile Arg Asn Asn Pro Ala Ile Tyr Pro Pro Ala Asp Val Phe Ala Lys
340     345     350
Leu Phe Thr Leu Lys Val Gln Glu Pro Lys Ile Asp Arg Val Arg Thr
355     360     365
Arg Ala Trp Thr Lys Val Lys Ser Gly Lys
370     375

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<210> 7094

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7094

```

Gln Met Ile Glu Gly Leu Pro Met Lys Gln Ile Leu Leu Val Glu Asp
1      5      10      15
Asp His Asp Ile Ala Ala Leu Leu Arg Leu Asn Leu Glu Asp Glu Gly
20      25      30
Tyr Ala Ile Thr His Glu Pro Asp Gly Gly Asn Ala Leu Gln Arg Leu

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<210> 7095
<211> 699
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Met	Asn	Lys	Leu 5	Phe	Leu	Leu	Ser	Gly 10	Leu	Ala	Leu	Ala	Ile 15	Ser
Ser	Ala	Cys	His 20	Ala	Glu	Leu	Arg	Thr 25	Trp	Pro	Asp	Pro	Thr 30	Gly	Pro
Ser	Gln	Ser 35	Asp	Phe	Gly	Gly	Thr 40	Gly	Leu	Met	Gln	Met 45	Pro	Asp	Ala
Arg	Phe 50	Gly	Arg	Glu	Gly	Glu	Phe 55	Ser	Val	Asn	Tyr 60	Arg	Asp	Asn	Asn
Gln 65	Tyr	Arg	Phe	Tyr	Ser	Ser	Ser	Val	Val	Leu	Phe 75	Pro	Trp	Leu	Glu 80
Gly	Thr	Ile	Arg 85	Tyr	Thr	Asp	Val	Arg	Thr 90	Arg	Lys	Tyr	Ser 95	Ser	Asn
Glu	Asp	Phe	Ser 100	Gly	Asp	Gln	Ser	Tyr 105	Lys	Asp	Lys	Ser	Phe 110	Asp	Phe
Lys	Val	Arg 115	Leu	Trp	Glu	Glu	Asp 120	Tyr	Ser	Leu	Pro	Gln 125	Val	Ala	Leu
Gly	Lys 130	Arg	Asp	Ile	Ala	Gly 135	Thr	Gly	Leu	Phe	Asp 140	Gly	Glu	Tyr	Leu
Val 145	Ala	Ser	Lys	Met	Ala 150	Gly	Pro	Val	Asp	Phe 155	Thr	Phe	Gly	Ile	Ala 160
Trp	Gly	Tyr	Pro 165	Gly	Asn	Ser	Asp	Asn	Val 170	Gly	Asn	Pro	Leu	Cys 175	His
Asp	Asn	Asn	Lys 180	Tyr	Cys	Thr	Arg	Gly 185	Glu	Ser	His	Asp	Ala 190	Gly	Asp
Ile	Ser 195	Phe	Ser	Asp	Met	Phe	Arg 200	Gly	Pro	Ala	Ser	Leu 205	Phe	Gly	Gly
Leu	Gln	Tyr	Gln	Thr	Pro	Trp	Gln	Pro	Leu	Arg	Leu	Lys	Leu	Glu	Tyr

210	215	220
Asp Gly Asn Asn Tyr Ala	Asp Asp Phe Ala Gly	Ser Ile Lys Gln Ser
225	230	235
Ser His Ile Asn Val	Gly Ala Val Tyr Arg	Val Ala Asp Trp Ala Asp
245	250	255
Leu Asn Leu Ser Tyr Glu	Arg Gly Asn Thr Leu Met	Phe Gly Phe Thr
260	265	270
Leu Arg Thr Asn Phe Asn	Asp Leu Arg Pro Ala Leu	Arg Asp Asn Pro
275	280	285
Lys Pro Ala Trp Gln Pro	Ala Pro Ala Gly Glu Thr	Leu Asp Tyr Thr
290	295	300
Ser Ala Ala Asn Gln Leu	Thr Ala Leu Lys Tyr Asn	Ala Gly Phe Asp
305	310	315
Ala Pro Glu Ile Leu Gln	His Gly Asn Thr Leu Tyr	Met Thr Gly Glu
325	330	335
Gln Tyr Arg Tyr Arg Asp	Pro Arg Glu Ala Val Asp	Arg Ala Asn Arg
340	345	350
Ile Leu Ile Asn Asn Leu	Pro Asp Gly Val Asp Thr	Ile Ala Ile Thr
355	360	365
Gln Gln Arg Asp His Leu	Pro Leu Val Thr Thr Gln	Thr Asp Val Ala
370	375	380
Ser Leu Arg Lys Gln Leu	Ala Gly Gln Pro Leu Gly	Gln Glu Glu Ala
385	390	395
Leu Arg Gln Gln Arg Val	Glu Pro Val Asp Thr Thr	Ala Phe Gly Arg
405	410	415
Gly Tyr Arg Ile Arg Ala	Asp Arg Phe Ser Tyr Ser	Val Lys Pro Thr
420	425	430
Leu Ala Gln Ser Leu Gly	Gly Gly Pro Glu Asp Phe	Tyr Met Phe Gln Val
435	440	445
Gly Val Met Ala Ser Ala	Ser Tyr Trp Leu Thr Asp	Arg Leu Leu Leu
450	455	460
Asp Gly Gly Val Phe Ala	Asn Leu Tyr Asn Asn Tyr	Asp Lys Phe Lys
465	470	475
Ser Ser Leu Leu Pro Ala	Asp Ser Ser Leu Pro Arg	Val Arg Thr His
485	490	495
Ile Arg Asp Tyr Val Ser	Asn Asp Val Tyr Ile Asn	Asn Leu Gln Ala
500	505	510
Asn Tyr Val Asp Ala Leu	Gly Asn Gly Phe Tyr Ala	Gln Ile Tyr Gly
515	520	525
Gly Tyr Leu Glu Thr Met	Tyr Gly Gly Val Gly Ala	Glu Ala Leu Trp
530	535	540
Arg Pro Leu Asp Ser Asp	Trp Ala Leu Gly Val Asp	Ala Asn Tyr Val
545	550	555
Lys Gln Arg Asp Trp Asp	Asp Met Met Arg Phe Thr	Asp Tyr Ser Val
565	570	575
Pro Thr Gly Phe Ile Thr	Ala Tyr Trp Asn Pro Ala	Lys Leu Asn Ser
580	585	590
Val Leu Met Lys Leu Ser	Val Gly Gln Tyr Leu Ala	Lys Asp Lys Gly
595	600	605
Ala Thr Leu Asp Val Ala	Lys Arg Phe Asp Ser Gly	Val Thr Val Gly
610	615	620
Val Trp Ala Ala Leu Thr	Asn Val Ser Lys Glu Asp	Tyr Gly Glu Gly
625	630	635
Gly Phe Ser Lys Gly Phe	Tyr Ile Ser Ile Pro Leu	Asp Leu Met Thr
645	650	655
Ile Gly Pro Asn Arg Asn	Arg Ala Val Val Ser Trp	Thr Pro Leu Thr
660	665	670
Arg Asp Gly Gly Gln Met	Leu Gly Arg Lys Tyr Gln	Leu Tyr Asp Met
675	680	685
Thr Ser Glu Arg Glu Thr	Pro Val Gly Gln	
690	695	

<210> 7096
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 7096

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Asn Arg Glu Ile Tyr Gln Asn Met Ala Lys Leu Thr Phe Asn Ala Ile
1      5      10      15
Leu Val Ile Cys Thr Gly Asn Ile Cys Arg Ser Pro Ile Gly Glu Arg
20      25      30
Leu Leu Arg Arg Leu Leu Pro Ala Ala Arg Val Asp Ser Ala Gly Thr
35      40      45
Cys Gly Leu Glu Gly Arg Thr Ala Asp Ser Gln Ala Thr Glu Ile Ala
50      55      60
Ala Glu Arg Gly Thr Leu Leu Glu Gly His Val Ala Arg Arg Leu Thr
65      70      75      80
Pro Ala Met Val Arg Asp Tyr Asp Leu Ile Leu Ala Met Glu Leu Glu
85      90      95
His Ile Glu Gln Phe Thr Ala Ile Ala Pro Glu Ala Arg Gly Lys Met
100     105     110
Met Leu Phe Gly His Trp Thr Gly Lys Lys Glu Ile Pro Asp Pro Thr
115     120     125
Val Lys Pro Gly Thr His Leu Asn Met Phe Met Gly Cys Trp Ser Arg
130     135     140
Pro Val Trp Asn Gly Arg Asn Gly Ser Val Asn His Thr Gly
145     150     155

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<210> 7097
 <211> 729
 <212> PRT
 <213> Enterobacter cloacae

<400> 7097

```

Leu Arg Phe Met Ser Thr Asn Asn Leu His Ala His Asp Ala Ser Ala
1      5      10      15
Ala Asn Asn Glu Ile Asp Leu Val Arg Leu Leu Gly Glu Leu Leu Asp
20      25      30
His Arg Lys Phe Ile Leu Ile Leu Thr Ala Leu Phe Thr Leu Val Ala
35      40      45
Leu Leu Tyr Ala Leu Phe Ala Thr Pro Val Tyr Gln Ala Asp Ala Leu
50      55      60
Ile Gln Val Glu Gln Lys Gln Gly Asn Ala Leu Leu Ser Asn Leu Ser
65      70      75      80
Glu Phe Ile Pro Asp Ser Ser Pro Glu Ser Ala Pro Glu Leu Gln Leu
85      90      95
Leu Gln Ser Arg Met Ile Leu Gly Lys Thr Ile Asp Asp Leu Asn Leu
100     105     110
Arg Thr Gln Val Ser Glu Asn Tyr Phe Pro Phe Val Gly Arg Gly Trp
115     120     125
Ala Arg Leu Thr Gly Gln Gln Pro Gly Ile Val Asp Ile Arg Met Leu
130     135     140
Asn Leu Pro Pro Val Ala Gly Arg Ala Gln Lys Leu Thr Leu Thr Val
145     150     155     160
Gly Glu Lys Gly His Tyr Gln Leu Glu Gly Asp Asn Val Thr Leu Gln
165     170     175
Gly Val Val Gly Gln Pro Leu Ser Ala Ala Asn Ile Ala Ile Thr Ile
180     185     190
Ala Asp Ile Gln Ala Lys Pro Gly Thr Gln Phe Thr Ile Thr Gln Gln
195     200     205
Ser Glu Leu Glu Ala Ile Asp Ala Leu Gln Leu Arg Phe Ser Val Ser

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210	215	220
Glu Arg Ser Lys Asp Ser Gly Met Leu Gly Leu Thr Ile Thr Gly Glu		
225	230	235
Asp Pro Asp Glu Met Ala Arg Val Leu Asn Cys Ile Ala Asp Asn Tyr		
	245	250
Leu Gln Gln Asn Val Ala Arg Gln Ala Ala Gln Asp Ala Lys Ser Leu		
	260	265
Gln Phe Leu Lys Gln Gln Leu Pro Gln Val Arg Ser Glu Leu Asp Gln		
	275	280
Ala Glu Glu Lys Leu Asn Arg Tyr Arg Gln Gln Asn Asp Ser Val Asp		
	290	295
Leu Asn Leu Glu Ala Lys Ala Val Leu Glu Gln Ile Val Asn Ala Asp		
305	310	315
Asn Gln Leu Asn Glu Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu		
	325	330
Tyr Lys Lys Asp His Pro Thr Tyr Arg Ala Leu Ile Glu Lys Arg Gln		
	340	345
Thr Leu Glu Gln Glu Lys Asn Arg Leu Asn Lys Arg Val Ser Ser Met		
	355	360
Pro Ser Thr Gln Gln Glu Val Leu Arg Leu Ser Arg Asp Val Glu Ser		
	370	375
Gly Arg Val Ile Tyr Gln Gln Leu Leu Asn Arg Glu Gln Glu Leu Ser		
385	390	395
Ile Ala Arg Ser Ser Ala Ile Gly Asn Val Arg Ile Ile Asp Pro Ala		
	405	410
Val Thr Arg Pro Gln Pro Val Lys Pro Lys Lys Ala Leu Val Val Val		
	420	425
Leu Gly Val Leu Leu Gly Leu Phe Val Ser Ala Gly Trp Ile Leu Ala		
	435	440
Arg Ser Met Leu Arg Met Gly Ile Glu Thr Pro Glu Gln Leu Glu Glu		
	450	455
His Gly Ile Asn Val Tyr Ala Thr Val Pro Leu Ser Glu Trp Leu Ala		
465	470	475
Lys Lys Met Arg Leu Arg Lys Lys Asp Phe Met Ser Pro Gly Leu Arg		
	485	490
His Lys Thr Lys His Ile Pro Phe Leu Ala Ala Asp Asn Pro Val Asp		
	500	505
Leu Ser Val Glu Ala Ile Arg Gly Leu Arg Thr Ser Leu His Phe Ala		
	515	520
Met Met Glu Ser Ala Asn Asn Ile Leu Met Ile Ser Gly Ala Thr Pro		
	530	535
Asp Ser Gly Lys Thr Phe Val Ser Ser Thr Leu Ala Ala Val Val Ala		
545	550	555
Gln Ala Gly Gln Lys Val Leu Tyr Ile Asp Ala Asp Met Arg Arg Gly		
	565	570
Tyr Ala His Asp Leu Phe Lys Leu Asp Asn Thr Cys Gly Leu Ser Glu		
	580	585
Ile Leu Ser Gly Lys Ala Glu Tyr Thr Gln Gly Val Gln Thr Phe Asp		
	595	600
Lys Gly Gly Phe Asp Thr Ile Val Arg Gly Gln Ile Pro Pro Asn Pro		
	610	615
Ala Glu Leu Leu Met His Thr Arg Phe Gln Gln Leu Leu Asp Trp Ala		
625	630	635
Asn Glu Arg Tyr Asp Leu Val Ile Ile Asp Thr Pro Pro Ile Leu Ala		
	645	650
Val Thr Asp Ala Ala Val Val Gly Arg Arg Ala Gly Thr Thr Leu Leu		
	660	665
Val Ala Arg Phe Gly Met Asn Ser Val Lys Glu Met Leu Val Cys Val		
	675	680
Gln Arg Leu Glu Gln Ser Gly Val Asn Thr Lys Gly Val Ile Leu Asn		
	690	700

Gly Val Val Lys Arg Ala Ser Asn Ala Tyr Gly Tyr Gly Tyr His His
 705 710 715 720
 Tyr Gly Tyr Asn Tyr Ser Ser Asn
 725

<210> 7098

<211> 606

<212> PRT

<213> Enterobacter cloacae

<400> 7098

Leu Asn Phe Ala Cys Arg Phe Gln Leu Leu Pro Ser Phe Cys Cys Asn
 1 5 10 15
 Lys Asn Asn Ala Leu Lys Arg Ala Arg Lys Met His Phe Cys Ser Trp
 20 25 30
 Ser Ala Ala Pro Gly Gln Gly Ile Pro Phe Ala Lys Gln Gly Gly Val
 35 40 45
 Ile Met Val Lys Trp Ile Ser Ile Leu Met Ile Phe Leu Ser Ser Gly
 50 55 60
 Ala Met Ala Ile Cys Pro Val Trp Ser Pro Ala Lys Ala Gly Gln Glu
 65 70 75 80
 Ile Ala Ala Leu Lys Ala Gln Leu Thr Arg Trp Asn Glu Asp Tyr Trp
 85 90 95
 Lys Gln Gly Ser Ser Glu Val Ser Asp Asp Val Tyr Asp Arg Leu Asn
 100 105 110
 Ala Arg Leu Lys Gln Trp Gln Arg Cys Phe His Asp Glu Pro Leu His
 115 120 125
 Asp Asp Pro Pro Ala Ala Ser Gly Thr Val Lys His Pro Phe Ala His
 130 135 140
 Thr Gly Val His Lys Val Glu Ser Lys Gln Ala Leu Ser Arg Trp Met
 145 150 155 160
 Ala Thr Gln Gln Asp Leu Trp Val Gln Pro Lys Val Asp Gly Val Ala
 165 170 175
 Val Thr Leu Val Tyr Lys Asn Gly Lys Leu Ala Gln Ala Ile Ser Arg
 180 185 190
 Gly Asp Gly Leu Gln Gly Glu Glu Trp Thr Ala Gln Ala Arg Met Ile
 195 200 205
 Pro Ala Ile Pro Gln Thr Leu Ala Gly Pro Leu Ala Asn Ser Val Leu
 210 215 220
 Gln Gly Glu Leu Phe Leu Leu Arg Glu Gly His Ile Gln Gln Arg Met
 225 230 235 240
 Gly Gly Met Asn Ala Arg Ala Lys Val Ala Gly Ala Met Met Arg Ala
 245 250 255
 Thr Asp Arg Ala Ala Leu Lys Gln Thr Gly Ile Phe Ile Trp Ala Trp
 260 265 270
 Pro Asn Gly Pro Lys Val Met Lys Ala Arg Leu Ser Ala Leu Ala Glu
 275 280 285
 Ala Gly Phe Thr Leu Thr Ala Arg Tyr Thr Leu Pro Val Lys Asn Ala
 290 295 300
 Ala Asp Val Glu Ala Gln Arg Thr Ala Trp Phe Lys Ala Ser Leu Pro
 305 310 315 320
 Phe Ala Thr Asp Gly Ile Val Val Arg Ala Ser Ala Glu Pro Pro Gly
 325 330 335
 Glu Glu Trp Leu Pro Gly Glu Gly Ser Trp Val Val Ala Trp Lys Tyr
 340 345 350
 Leu Pro Val Ala Gln Val Thr Glu Val Lys Ala Ile His Phe Thr Val
 355 360 365
 Gly Arg Thr Gly Arg Ile Thr Ala Ile Ala Gln Leu Glu Pro Leu Met
 370 375 380
 Leu Asp Asp Lys Arg Val Gln Arg Val Ser Leu Gly Ser Val Asn Arg
 385 390 395 400

Trp Gln Arg Leu Asp Ile Ala Pro Gly Asp Gln Val Leu Val Ser Leu
 405 410 415
 Ala Gly Gln Gly Ile Pro Arg Leu Asp Asn Val Val Trp Arg Asn Val
 420 425 430
 Asp Arg Arg Lys Pro Gln Pro Pro Ser Ser Arg Tyr Asn Gly Leu Thr
 435 440 445
 Cys Phe Tyr Ala Ser Pro Glu Cys Met Glu Gln Phe Phe Ala Arg Leu
 450 455 460
 Thr Trp Leu Ser Ser Arg Gln Ala Leu Asp Ile Glu Gly Met Gly Glu
 465 470 475 480
 Ser Gly Trp Arg Thr Leu Tyr Gln Ala His Arg Phe Glu His Leu Phe
 485 490 495
 Ser Trp Leu Gln Leu Thr Gln Ala Gln Leu Thr Ala Thr Pro Gly Ile
 500 505 510
 Ser Ala Ser His Gly Ala Ala Leu Trp His Gln Phe Asn Leu Ala Arg
 515 520 525
 Glu Arg Pro Phe Ile Arg Trp Ile Thr Ala Met Gly Ile Pro Leu Ala
 530 535 540
 Arg Ser Thr Leu Lys Ala Ala Gly Asp Arg Thr Trp Gln Ala Leu Ile
 545 550 555 560
 Gln Arg Ser Glu Ala Glu Trp Arg Met Leu Pro Gly Val Gly Gln Glu
 565 570 575
 Lys Ala Arg Gln Ile Val Asn Trp Leu His Gln Pro Gln Ile Asp Ala
 580 585 590
 Leu Ala Lys Trp Leu Ala Ala Glu His Ile Gly Gly Phe
 595 600 605

<210> 7099

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7099

Phe Arg Tyr Arg Pro Gly Thr Pro Glu Arg Thr Asp Ala Arg Arg Gly
 1 5 10 15
 Arg Ile Pro Cys Arg His Asp Asp Val Glu Ala Arg Pro Met Asn Arg
 20 25 30
 Leu Arg Lys Trp Leu Pro Gly Val Gly Leu Ser Leu Phe Ser Leu Ser
 35 40 45
 Ala Leu Cys Ala Ser Val Val Thr Val His Gln Pro Gly Lys Thr Trp
 50 55 60
 Ser Ala Glu Pro Ala Asp Thr Leu Ser Arg Leu Val Thr Gln Pro Gln
 65 70 75 80
 Leu Asn Asn Val Trp Trp Gln Gly Ala Val Ile Ala Thr Pro Ser Ala
 85 90 95
 Thr Leu Arg Ala Gln Gln Thr Gln Gln Gln Val Leu Ala Ser Leu Ser
 100 105 110
 Val Trp Gln Asn Arg Thr Asp Asp Glu Arg Ile Ala Thr Ile Arg Ala
 115 120 125
 Val Ala Ala Gln Ile Arg Ser Leu Arg Ile Val Gly Arg Gln Phe Val
 130 135 140
 Ser Leu Asp Pro Asp Ala Val Arg Thr Asp Ala Arg Gly Asp Arg Phe
 145 150 155 160
 Leu Glu Gly Arg Tyr Asp Leu Trp Leu Ser Pro Ala Pro Arg Thr Val
 165 170 175
 Thr Leu Met Gly Ala Val Val Thr Pro Gly Lys Arg Ala Trp Arg Pro
 180 185 190
 Gly Ala Ser Ile Arg Asp Tyr Leu Gln Gly Gln Leu Arg Leu Ala Gly
 195 200 205
 Ala Asp Arg Asn Asn Val Thr Val Ile Asp Pro Asp Gly Ser Thr Val
 210 215 220

Val Ala Pro Val Ala Tyr Trp Asn Ala Arg His Ile Glu Ala Glu Pro
 225 230 235 240
 Gly Ala Val Leu Trp Val Gly Phe Asp Pro Arg Ala Val Pro Asp Asp
 245 250 255
 Phe Thr Gly Leu Asn Glu Gln Ile Val Ala Leu Leu Thr Arg Arg Ile
 260 265 270
 Pro Asp
 275

<210> 7100

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 7100

Met Lys Asn Val Lys Phe Ser Val Leu Ala Leu Ala Met Met Ala Leu
 1 5 10 15
 Ser Gly Cys Thr Ile Val Pro Gly Gln Gly Leu Ser Thr Gln Gly Lys
 20 25 30
 Asp Ile Ile Asp Leu Pro Asp Ser Asn Tyr Asp Leu Asn Lys Met Val
 35 40 45
 Asn Val Tyr Pro Leu Thr Pro Gly Leu Val Glu Gln Leu Leu Pro Gly
 50 55 60
 Lys Val Asp Ser Arg Ala Asn Pro Glu Leu Asp Arg Gln Leu Gln Asn
 65 70 75 80
 Tyr Gln Tyr Cys Ile Gly Val Gly Asp Val Leu Met Val Thr Val Trp
 85 90 95
 Asp His Pro Glu Leu Thr Thr Pro Ala Gly Gln Tyr Arg Ser Ala Ser
 100 105 110
 Asp Thr Gly Asn Trp Val Asn Ala Asp Gly Thr Ile Phe Tyr Pro Tyr
 115 120 125
 Ile Gly Lys Ile Arg Val Val Gly Lys Thr Leu Ala Gln Val Arg Asp
 130 135 140
 Glu Ile Ala Ala Arg Leu Asp Ser Val Ile Glu Ser Pro Gln Val Asp
 145 150 155 160
 Val Ser Val Ala Ala Phe Arg Ser Gln Lys Ala Tyr Val Thr Gly Glu
 165 170 175
 Val Ala Lys Ser Gly Gln Gln Pro Ile Thr Asn Ile Pro Leu Thr Ile
 180 185 190
 Met Asp Ala Ile Asn Ala Ala Gly Gly Leu Thr Ser Glu Ala Asp Trp
 195 200 205
 Arg His Val Val Leu Thr His Asn Gly Gln Asp Thr His Ile Ser Leu
 210 215 220
 Tyr Ala Leu Met Gln Arg Gly Asp Leu Thr Gln Asn Lys Leu Leu Tyr
 225 230 235 240
 Pro Gly Asp Ile Leu Phe Ile Pro Arg Asn Asp Asp Leu Lys Val Phe
 245 250 255
 Val Met Gly Glu Val Gly Lys Gln Ser Thr Gln Lys Met Asp Arg Ser
 260 265 270
 Gly Met Thr Leu Ala Glu Ala Leu Gly Asn Ala Gln Gly Val Asn Gln
 275 280 285
 Asp Met Ala Asp Ala Thr Gly Ile Phe Val Ile Arg Pro Leu Gln Gly
 290 295 300
 Lys Gln Asn Gly Lys Ile Ala Asn Val Tyr Gln Leu Asn Ala Arg Asp
 305 310 315 320
 Ala Thr Ala Met Val Leu Ser Thr Glu Phe Gln Leu Glu Pro Tyr Asp
 325 330 335
 Ile Val Tyr Val Thr Thr Ala Pro Leu Val Arg Trp Asn Arg Val Ile
 340 345 350
 Ser Gln Leu Val Pro Thr Ile Thr Gly Val His Asp Leu Thr Glu Thr
 355 360 365

Gly Arg Tyr Ile Arg Thr Trp Pro Asn
370 375

<210> 7101

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7101

Leu	Ile	Ser	Met	Leu	Phe	Asn	Gln	Gly	Phe	Leu	Val	Arg	Leu	Phe	Ile
1				5				10						15	
Leu	Leu	Ile	Met	Thr	Leu	Leu	Ile	Gln	Gly	Cys	Thr	Pro	Ser	Gln	Gln
			20					25					30		
Ser	Ile	Ile	Glu	Thr	Phe	Asn	Ala	Ser	Leu	Asp	Gly	Arg	Gln	Asp	Val
		35					40					45			
Thr	Val	Thr	Asp	Gly	Gln	Ile	Gln	Ala	Phe	Pro	Tyr	Ser	Thr	Met	Tyr
	50					55					60				
Leu	Arg	Leu	Asp	Asn	Gly	Pro	Arg	Ile	Leu	Val	Val	Leu	Gly	Tyr	Ile
65					70					75					80
Glu	Gln	Gly	Asn	Ser	Lys	Trp	Leu	Ser	Gln	Asp	Asn	Ala	Met	Ile	Val
			85						90					95	
Thr	His	Asn	Gly	Arg	Leu	Ile	His	Thr	Leu	Lys	Leu	Pro	Tyr	Asn	Leu
		100						105					110		
Leu	Glu	Val	Thr	Asn	Leu	Glu	His	Asp	Pro	Leu	Arg	His	Thr	Pro	Gln
		115					120					125			
Leu	Arg	Asp	Gly	Ser	Gln	Trp	Ser	Arg	Asp	Val	Arg	Trp	Gln	Glu	Glu
	130					135				140					
Gly	Arg	Tyr	Arg	Ser	Ala	His	Leu	Asn	Ser	Arg	Phe	Ser	Leu	Ser	Gly
145					150					155					160
Thr	Glu	Asn	Leu	Thr	Leu	Ala	Gly	Asn	Thr	Leu	Arg	Cys	Gln	Val	Trp
			165						170					175	
Gln	Glu	Ala	Val	Gln	Ala	Asp	Gly	Leu	Asp	Arg	Arg	Trp	His	Asn	Thr
		180						185					190		
Phe	Trp	Ile	Asp	Ser	Ala	Thr	Gly	Gln	Val	Arg	Gln	Ser	Glu	Gln	Met
		195					200				205				
Leu	Gly	Ala	Gly	Val	Phe	Pro	Val	Ala	Met	Thr	Met	Leu	Lys	Pro	Ala
	210					215					220				
Pro															
225															

<210> 7102

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7102

Gly	Pro	Arg	Gly	Ala	Gln	Ala	His	Pro	Arg	His	Gly	Ala	Arg	Leu	Arg
1				5					10					15	
Ser	Asp	Ser	Gly	Asp	Gly	Ala	Gly	Thr	Tyr	Arg	Ala	Val	His	Gly	Tyr
			20					25					30		
Arg	Thr	Gly	Gly	Ala	Arg	Gln	Asn	Asp	Ala	Leu	Trp	Ser	Leu	Asp	Gly
		35					40					45			
Gln	Lys	Arg	Asp	Pro	Gly	Pro	His	Arg	Lys	Thr	Arg	Asp	Ala	Phe	Glu
	50					55					60				
Tyr	Val	Tyr	Gly	Leu	Leu	Glu	Gln	Ala	Ser	Leu	Glu	Trp	Ala	Lys	Arg
65					70					75					80
Leu	Ser														

<210> 7103

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 7103

Thr	Phe	Pro	Phe	Leu	Lys	Glu	Arg	Trp	Gly	Asp	Tyr	Ser	Phe	Gln	Gly
1				5					10					15	
Leu	Leu	Arg	Ile	Gly	Ile	Ser	Val	Leu	Tyr	Pro	Tyr	Asn	Ala	Gln	Pro
			20					25					30		
His	Ser	Phe	Gln	Ala	Gly	Glu	Ser	Ile	Met	Arg	Pro	Ala	Gly	Arg	Asn
		35					40					45			
Ala	Asn	Gln	Val	Arg	Pro	Val	Thr	Leu	Thr	Arg	Asn	Tyr	Thr	Lys	His
	50					55					60				
Ala	Glu	Gly	Ser	Val	Leu	Val	Glu	Phe	Gly	Asp	Thr	Lys	Val	Leu	Cys
65					70					75					80
Thr	Ala	Ser	Ile	Glu	Lys	Gly	Val	Pro	Arg	Phe	Leu	Lys	Gly	Gln	Gly
			85						90					95	
Gln	Gly	Trp	Ile	Thr	Ala	Glu	Tyr	Cys	Met	Leu	Pro	Arg	Ala	Thr	His
			100					105					110		
Thr	Arg	Asn	Ala	Arg	Glu	Ala	Ala	Lys	Gly	Lys	Gln	Gly	Gly	Arg	Thr
		115					120					125			
Met	Glu	Ile	Gln	Arg	Leu	Ile	Ala	Arg	Ala	Leu	Arg	Ala	Ala	Val	Asp
	130					135						140			
Leu	Lys	Thr	Leu	Gly	Glu	Phe	Thr	Ile	Thr	Leu	Asp	Cys	Asp	Val	Ile
145					150					155					160
Gln	Ala	Asp	Gly	Gly	Thr	Arg	Thr	Ala	Ser	Ile	Thr	Gly	Ala	Cys	Val
			165						170					175	
Ala	Leu	Ala	Asp	Ala	Leu	Asn	Lys	Leu	Val	Ala	Ala	Gly	Lys	Leu	Lys
			180					185					190		
Thr	Asn	Pro	Met	Lys	Gly	Met	Val	Ala	Ala	Val	Ser	Val	Gly	Ile	Val
		195					200					205			
Asn	Gly	Glu	Ala	Leu	Cys	Asp	Leu	Glu	Tyr	Val	Glu	Asp	Ser	Ala	Ala
	210					215					220				
Glu	Thr	Asp	Met	Asn	Val	Val	Met	Thr	Glu	Asp	Gly	Arg	Ile	Ile	Glu
225					230					235					240
Val	Gln	Gly	Thr	Ala	Glu	Gly	Glu	Pro	Phe	Thr	His	Glu	Glu	Leu	Leu
			245						250					255	
Thr	Leu	Leu	Ala	Leu	Ala	Arg	Gly	Gly	Ile	Glu	Ser	Ile	Val	Ala	Thr
			260					265						270	
Gln	Lys	Ala	Ala	Leu	Glu	Asn									
		275					280								

<210> 7104

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 7104

Val	Ala	Phe	Phe	Leu	Pro	Val	Arg	Leu	Lys	Arg	Gln	Arg	Ser	Lys	Ser
1				5					10					15	
Met	Lys	Ser	Tyr	Gln	Arg	Gln	Phe	Ile	Glu	Phe	Ala	Leu	Asn	Lys	Gln
			20					25					30		
Val	Leu	Lys	Phe	Gly	Glu	Phe	Thr	Leu	Lys	Ser	Gly	Arg	Lys	Ser	Pro
		35					40					45			
Tyr	Phe	Phe	Asn	Ala	Gly	Leu	Phe	Asn	Thr	Gly	Arg	Asp	Leu	Ala	Leu
	50					55					60				
Leu	Gly	Arg	Phe	Tyr	Ala	Glu	Ala	Leu	Val	Asp	Ser	Gly	Ile	Asp	Phe
65					70					75					80
Asp	Leu	Leu	Phe	Gly	Pro	Ala	Tyr	Lys	Gly	Ile	Pro	Ile	Ala	Thr	Thr
			85						90					95	
Thr	Ala	Val	Ala	Leu	Ala	Glu	His	His	Asp	Arg	Asp	Val	Pro	Tyr	Cys
			100					105					110		

Phe Asn Arg Lys Glu Ala Lys Thr His Gly Glu Gly Gly Asn Leu Val
 115 120 125
 Gly Ser Ala Leu Gln Gly Arg Val Met Leu Val Asp Asp Val Ile Thr
 130 135 140
 Ala Gly Thr Ala Ile Arg Glu Ser Met Glu Ile Ile Gln Ala Asn Gly
 145 150 155 160
 Ala Thr Leu Ala Gly Val Leu Ile Ser Leu Asp Arg Gln Glu Arg Gly
 165 170 175
 Arg Gly Asp Ile Ser Ala Ile Gln Glu Val Glu Arg Asp Tyr Asn Cys
 180 185 190
 Lys Val Thr Ser Ile Ile Thr Leu Lys Asp Leu Ile Ala Tyr Leu Glu
 195 200 205
 Glu Lys Pro Glu Met Ala Asp His Leu Ala Ala Val Arg Gln Tyr Arg
 210 215 220
 Glu Glu Phe Gly Val
 225 230

<210> 7105

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 7105

Arg Thr Pro Asp Ile Val Ala Gly Val Ala Ala Leu Lys Thr Leu Val
 1 5 10 15
 Pro Asn Val Val Gly Phe Ala Ala Glu Thr Asn Asn Val Glu Glu Tyr
 20 25 30
 Ala Arg Gln Lys Arg Thr Arg Lys Asn Leu Asp Leu Ile Cys Ala Asn
 35 40 45
 Asp Val Ser Leu Ser Thr Gln Gly Phe Asn Ser Asp Arg Gln Arg Ile
 50 55 60
 Ala Pro Phe Leu Ala Gly Trp Arg
 65 70

<210> 7106

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7106

Cys Asn Asn Lys Pro Gln Thr Ser Val Cys Gly Ser Leu Cys Gly Cys
 1 5 10 15
 Gln Pro Asp Lys Cys Leu Phe Ser Gly Val Phe Cys Asn Met Ala Glu
 20 25 30
 Lys Gln Thr Ala Lys Arg Asn Arg Arg Glu Glu Ile Leu Gln Ser Leu
 35 40 45
 Ala Leu Met Leu Glu Ser Ser Asp Gly Ser Gln Arg Ile Thr Thr Ala
 50 55 60
 Lys Leu Ala Ala Ser Val Gly Val Ser Glu Ala Ala Leu Tyr Arg His
 65 70 75 80
 Phe Pro Ser Lys Thr Arg Met Phe Asp Ser Leu Ile Glu Phe Ile Glu
 85 90 95
 Asp Ser Leu Ile Thr Arg Ile Asn Leu Ile Leu Lys Asp Glu Lys Asp
 100 105 110
 Thr Ser Thr Arg Leu Arg Leu Ile Val Leu Leu Ile Leu Gly Phe Gly
 115 120 125
 Glu Arg Asn Pro Gly Leu Thr Arg Ile Leu Thr Gly His Ala Leu Met
 130 135 140
 Phe Glu Gln Asp Arg Leu Gln Gly Arg Ile Asn Gln Leu Phe Glu Arg
 145 150 155 160
 Ile Glu Ala Gln Leu Arg Gln Val Leu Arg Glu Lys Lys Met Arg Glu

				165					170					175			
Asp	Glu	Gly	Tyr	Asn	Thr	Asp	Glu	Thr	Leu	Leu	Ala	Ser	Gln	Ile	Leu		
			180					185					190				
Ala	Phe	Cys	Glu	Gly	Met	Leu	Ser	Arg	Phe	Val	Arg	Ser	Glu	Phe	Lys		
		195					200					205					
Tyr	Arg	Pro	Thr	Asp	Asp	Phe	Asp	Ala	Arg	Trp	Pro	Leu	Val	Ala	Ala		
	210					215					220						
Gln	Leu	Gln															
225																	

<210> 7107

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7107

Glu	Ala	Pro	Glu	Ser	Tyr	Asn	Pro	Pro	Ile	Ser	Pro	Leu	Lys	Thr	Gly		
1				5					10					15			
Met	Ser	Met	Ile	Arg	Ser	Met	Thr	Ala	Tyr	Ala	Arg	Arg	Glu	Ile	Lys		
			20					25					30				
Gly	Ser	Trp	Gly	Ser	Ala	Thr	Trp	Glu	Met	Arg	Ser	Val	Asn	Gln	Arg		
		35					40					45					
Tyr	Leu	Glu	Thr	Tyr	Phe	Arg	Met	Pro	Glu	Gln	Phe	Arg	Ser	Leu	Glu		
	50					55					60						
Pro	Val	Val	Arg	Glu	Arg	Ile	Arg	Thr	Arg	Leu	Thr	Arg	Gly	Lys	Val		
65					70					75					80		
Glu	Cys	Asn	Leu	Arg	Phe	Glu	Pro	Asp	Ala	Ser	Ala	Gln	Gly	Glu	Leu		
				85				90					95				
Ile	Leu	Asn	Glu	Lys	Leu	Ala	Lys	Gln	Leu	Val	Asn	Ala	Ala	Asn	Trp		
		100						105					110				
Val	Lys	Met	Gln	Ser	Asp	Glu	Gly	Glu	Ile	Asn	Pro	Val	Asp	Ile	Leu		
		115					120					125					
Arg	Trp	Pro	Gly	Val	Met	Ala	Ala	Gly	Glu	Gln	Asp	Leu	Asp	Ala	Ile		
	130					135					140						
Thr	Ala	Glu	Ile	Leu	Ala	Ala	Leu	Asp	Gly	Thr	Leu	Asp	Asp	Phe	Ile		
145					150					155					160		
Val	Ala	Arg	Glu	Thr	Glu	Gly	Gln	Ala	Leu	Lys	Ala	Met	Ile	Glu	Gln		
				165				170						175			
Arg	Leu	Glu	Gly	Val	Ser	Ala	Glu	Val	Ala	Lys	Val	Arg	Ala	His	Met		
			180					185					190				
Pro	Glu	Val	Leu	Gln	Trp	Gln	Arg	Glu	Arg	Leu	Val	Ala	Lys	Leu	Glu		
	195						200					205					
Glu	Ala	Glu	Val	Gln	Leu	Glu	Asn	Asn	Arg	Leu	Glu	Gln	Glu	Leu	Val		
	210					215					220						
Leu	Met	Ala	Gln	Arg	Val	Asp	Val	Ala	Glu	Glu	Leu	Asp	Arg	Leu	Glu		
225					230				235						240		
Ala	His	Val	Lys	Glu	Thr	Tyr	Asn	Ile	Leu	Lys	Lys	Lys	Glu	Ala	Val		
				245					250						255		
Gly	Arg	Arg	Leu	Asp	Phe	Met	Met	Gln	Glu	Phe	Asn	Arg	Glu	Ser	Asn		
			260					265					270				
Thr	Leu	Ala	Ser	Lys	Ser	Ile	Asn	Ala	Glu	Val	Thr	Asn	Ser	Ala	Ile		
		275					280					285					
Glu	Leu	Lys	Val	Leu	Ile	Glu	Gln	Met	Arg	Glu	Gln	Ile	Gln	Asn	Ile		
	290					295					300						
Glu																	
305																	

<210> 7108

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 7108

His Ile Gln Lys Thr Leu Met Ala Gln Gly Thr Leu Tyr Ile Val Ser
 1 5 10 15
 Ala Pro Ser Gly Ala Gly Lys Ser Ser Leu Ile Gln Ala Leu Leu Lys
 20 25 30
 Thr Gln Pro Leu Tyr Asp Thr Gln Val Ser Val Ser His Thr Thr Arg
 35 40 45
 Ala Pro Arg Pro Gly Glu Val His Gly Glu His Tyr Phe Phe Val Asn
 50 55 60
 His Asp Glu Phe Arg Ala Met Ile Gly Arg Asp Ala Phe Leu Glu His
 65 70 75 80
 Ala Glu Val Phe Gly Asn Tyr Tyr Gly Thr Ser Arg Glu Thr Ile Glu
 85 90 95
 Gln Val Leu Ala Thr Gly Val Asn Val Phe Leu Asp Ile Asp Trp Gln
 100 105 110
 Gly Ala Gln Gln Ile Arg Lys Lys Met Pro Asp Ser Arg Ser Ile Phe
 115 120 125
 Ile Leu Pro Pro Ser Lys Asp Glu Leu Asp Arg Arg Leu Arg Gly Arg
 130 135 140
 Gly Gln Asp Ser Glu Glu Val Ile Ala Lys Arg Met Ala Gln Ala Val
 145 150 155 160
 Ala Glu Met Ser His Tyr Ala Glu Tyr Asp Tyr Leu Ile Val Asn Asp
 165 170 175
 Asp Phe Asp Ala Pro Leu Ser Asp Arg Phe His Gln Arg Arg Pro Glu
 180 185 190
 Gly

<210> 7109

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7109

Ser Pro Ser Leu His Ser Gly Gly Phe Met Leu Leu His Ile Leu Tyr
 1 5 10 15
 Leu Ile Gly Ile Thr Ala Glu Ala Met Thr Gly Ala Leu Ala Gly
 20 25 30
 Arg Arg Arg Met Asp Thr Phe Gly Val Ile Ile Ile Ala Thr Ala Thr
 35 40 45
 Ala Leu Gly Gly Gly Ser Val Arg Asp Ile Leu Leu Gly His Tyr Pro
 50 55 60
 Leu Gly Trp Val Lys Asn Pro Glu Tyr Val Ile Ile Val Ala Thr Ala
 65 70 75 80
 Ala Val Leu Thr Thr Ile Val Ala Pro Val Met Pro His Leu Arg Arg
 85 90 95
 Val Phe Leu Val Leu Asp Ala Leu Gly Leu Ile Val Phe Ser Ile Ile
 100 105 110
 Gly Ala Gln Ile Ala Leu Asp Met Gly Glu Gly Pro Val Ile Ala Thr
 115 120 125
 Ile Ala Ala Val Ile Thr Gly Val Phe Gly Gly Val Leu Arg Asp Met
 130 135 140
 Phe Cys Lys Arg Ile Pro Leu Val Phe Gln Lys Glu Leu Tyr Ala Gly
 145 150 155 160
 Ile Ser Phe Ala Ala Val Leu Tyr Val Ala Leu Gln His Tyr Val
 165 170 175
 Thr Ser His Asp Val Val Val Ile Ser Thr Leu Leu Phe Gly Phe Thr
 180 185 190
 Ala Arg Met Leu Ala Leu Arg Leu Lys Leu Gly Leu Pro Val Phe His
 195 200 205

Tyr Lys His Asn Ala His
210 215

<210> 7110

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 7110

Gln	Arg	Gln	Ala	Thr	His	Cys	Thr	Phe	Ser	Gly	Arg	Met	Glu	Ile	Lys
1			5					10					15		
Ser	Tyr	Arg	Leu	Ser	Ala	Lys	Asn	Ser	Trp	Ala	Asn	Thr	Tyr	Trp	Thr
		20					25				30				
Arg	Ser	Leu	Pro	Val	Met	Met	Lys	Lys	Ile	Asp	Val	Lys	Ile	Leu	Asp
		35					40				45				
Pro	Arg	Val	Gly	Glu	Gln	Phe	Pro	Leu	Pro	Thr	Tyr	Ala	Thr	Ser	Gly
	50					55					60				
Ser	Ala	Gly	Leu	Asp	Leu	Arg	Ala	Cys	Leu	Asp	Asp	Ala	Val	Glu	Leu
65				70						75					80
Ala	Pro	Gly	Ala	Thr	Leu	Ile	Pro	Thr	Gly	Leu	Ala	Ile	His	Ile	
			85					90					95		
Ala	Asp	Pro	Ser	Leu	Ala	Ala	Val	Ile	Leu	Pro	Arg	Ser	Gly	Leu	Gly
			100				105						110		
His	Lys	His	Gly	Val	Val	Leu	Gly	Asn	Leu	Val	Gly	Leu	Ile	Asp	Ser
	115						120					125			
Asp	Tyr	Gln	Gly	Gln	Leu	Met	Val	Ser	Val	Trp	Asn	Arg	Gly	Gln	Asp
	130					135					140				
Ser	Phe	Thr	Ile	Glu	Pro	Gly	Glu	Arg	Ile	Ala	Gln	Met	Val	Phe	Val
145					150					155					160
Pro	Val	Val	Gln	Ala	Glu	Phe	Asn	Leu	Val	Ala	Asp	Phe	Asp	Ala	Thr
			165					170						175	
Asp	Arg	Gly	Glu	Gly	Gly	Phe	Gly	His	Ser	Gly	Arg	Lys			
		180						185					190		

<210> 7111

<211> 526

<212> PRT

<213> Enterobacter cloacae

<400> 7111

Phe	Ala	Ala	Gly	Glu	Cys	Phe	Pro	Arg	Met	Arg	Ile	Ser	Phe	Ser	Val
1			5						10				15		
Leu	Ala	Ser	Pro	Ser	Asp	Asp	Phe	Met	Asp	Ala	Leu	Leu	Gln	Leu	Lys
		20						25				30			
Gly	Ile	Asp	Lys	Ser	Phe	Pro	Gly	Val	Lys	Ala	Leu	Ser	Gly	Ala	Ala
	35						40				45				
Leu	Asn	Val	Tyr	Ser	Gly	Arg	Val	Met	Ala	Leu	Val	Gly	Glu	Asn	Gly
	50					55					60				
Ala	Gly	Lys	Ser	Thr	Met	Met	Lys	Val	Leu	Thr	Gly	Ile	Tyr	Gln	Arg
65				70						75					80
Asp	Ala	Gly	Ser	Leu	Leu	Trp	Leu	Gly	Lys	Glu	Thr	Thr	Phe	Asn	Gly
			85					90						95	
Pro	Lys	Ser	Ser	Gln	Glu	Ala	Gly	Ile	Gly	Ile	Ile	His	Gln	Glu	Leu
		100					105						110		
Asn	Leu	Ile	Pro	Gln	Leu	Thr	Ile	Ala	Glu	Asn	Ile	Phe	Leu	Gly	Arg
	115						120					125			
Glu	Phe	Val	Asn	Arg	Phe	Gly	Lys	Ile	Asp	Trp	Lys	Thr	Met	Tyr	Ala
	130					135					140				
Glu	Ala	Asp	Lys	Leu	Leu	Ala	Lys	Leu	Asn	Leu	Arg	Phe	Lys	Ser	Asp
145				150						155					160
Arg	Leu	Val	Gly	Asp	Leu	Ser	Ile	Gly	Asp	Gln	Gln	Met	Val	Glu	Ile

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<210> 7112
<211> 90
<212> PRT
<213> Enterobacter cloacae
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Ser	Ser	Pro	Ser	Ala	Ala	Val	Gly	Cys	Gly	Leu	Ala	Ser	Met	Ala	Lys
1			5						10					15	
Val	Val	Ala	Cys	Arg	Ala	Leu	Arg	Ser	Lys	Pro	Leu	Ile	Pro	Ser	Pro
			20					25					30		
Gln	Gly	Asp	Thr	Phe	Asn	Gly	Ala	Leu	Val	Thr	Ala	Leu	Leu	Glu	Gly
		35					40					45			
Lys	Ala	Met	Asp	Asp	Ala	Ile	Arg	Phe	Ala	His	Ala	Ala	Ala	Ala	Ile
	50					55					60				
Ala	Val	Thr	Arg	Lys	Gly	Ala	Gln	Pro	Ser	Val	Pro	Trp	Arg	Lys	Glu

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<210> 7113
<211> 332
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Leu	Ala	Thr	Met 5	Lys	Asp	Val	Ala	Arg 10	Met	Ala	Gly	Val	Ser 15	Thr
Ser	Thr	Val	Ser 20	His	Val	Ile	Asn	Asn 25	Asp	Arg	Phe	Val	Ser 30	Glu	Ala
Ile	Arg	Glu 35	Lys	Val	Asp	Ala	Ala 40	Ile	Lys	Glu	Leu	Asn 45	Tyr	Ala	Pro
Ser	Ala 50	Leu	Ala	Arg	Ser	Leu 55	Lys	Leu	Asn	Gln	Thr 60	Arg	Thr	Ile	Gly
Met 65	Leu	Ile	Thr	Ala	Ser 70	Thr	Asn	Pro	Phe	Tyr 75	Ser	Glu	Leu	Val	Arg
Gly	Val	Glu	Arg	Ser 85	Cys	Phe	Glu	Arg	Gly 90	Tyr	Ser	Leu	Val	Leu	Cys
Asn	Thr	Glu	Gly 100	Asp	Glu	Gln	Arg	Met 105	Asn	Arg	Asn	Leu	Glu 110	Thr	Leu
Met	Gln	Lys 115	Arg	Val	Asp	Gly	Leu 120	Leu	Leu	Leu	Cys	Thr 125	Glu	Thr	His
Gln	Pro 130	Ser	Lys	Glu	Ile	Ile 135	Gln	Arg	Tyr	Pro	Ser 140	Ile	Pro	Thr	Val
Met 145	Met	Asp	Trp	Ala	Pro 150	Phe	Asp	Gly	Thr	Ser 155	Asp	Leu	Ile	Gln	Asp
Asn	Ser	Leu	Leu	Gly 165	Gly	Asp	Met	Ala	Thr 170	Gln	His	Leu	Ile	Asp 175	Lys
Gly	His	Thr	Arg 180	Ile	Ala	Cys	Ile	Thr 185	Gly	Pro	Leu	Asp	Lys 190	Thr	Pro
Ala	Arg	Leu 195	Arg	Leu	Glu	Gly	Tyr 200	Leu	Ser	Ala	Met	Glu 205	Arg	Ala	Gly
Leu	Ala 210	Ile	Pro	Asp	Gly	Tyr 215	Arg	Ile	Thr	Gly	Asp 220	Phe	Glu	Phe	Asn
Gly 225	Gly	Phe	Glu	Ala	Met 230	Gln	Lys	Leu	Leu	Ala 235	Gln	Glu	Pro	Arg	Pro
Gln	Ala	Val	Phe	Ile 245	Gly	Asn	Asp	Ala	Met 250	Ala	Phe	Gly	Ala	Tyr 255	Gln
Ala	Leu	Tyr	Gln 260	Ala	Gly	Leu	Arg	Val 265	Pro	Asp	Asp	Met	Ala 270	Ile	Val
Gly	Tyr	Asp 275	Asp	Ile	Glu	Leu	Ala 280	Arg	Tyr	Met	Thr 285	Pro	Pro	Leu	Thr
Thr	Ile 290	His	Gln	Pro	Lys	Asp 295	Glu	Leu	Gly	Glu	Leu 300	Ala	Ile	Asp	Val
Leu 305	Ile	His	Arg	Met	Ala 310	Gln	Pro	Thr	Leu	Gln 315	Gln	Gln	Arg	Leu	Gln 320
Leu	Thr	Pro	Val	Leu 325	Met	Glu	Arg	Gly	Ser 330	Val					

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<210> 7114
<211> 624
<212> PRT
<213> Enterobacter cloacae
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Ser Met Ser Thr Asp Asn Lys Gln Ser Leu Pro Ala Val Thr Leu Ala
1 5 10 15

Ala	Ile	Gly	Val	Val	Tyr	Gly	Asp	Ile	Gly	Thr	Ser	Pro	Leu	Tyr	Thr
			20					25					30		
Leu	Arg	Glu	Cys	Leu	Ser	Gly	Gln	Phe	Gly	Phe	Gly	Val	Glu	Arg	Asp
		35					40					45			
Ala	Val	Phe	Gly	Phe	Leu	Ser	Leu	Ile	Phe	Trp	Leu	Leu	Ile	Leu	Val
	50					55					60				
Val	Ser	Leu	Lys	Tyr	Leu	Ser	Phe	Val	Met	Arg	Ala	Asp	Asn	Ala	Gly
65					70					75					80
Glu	Gly	Gly	Ile	Leu	Thr	Leu	Met	Ser	Leu	Ala	Gly	Arg	Asn	Thr	Ser
				85					90					95	
Ala	Arg	Met	Thr	Ser	Val	Leu	Val	Ile	Ile	Gly	Leu	Ile	Gly	Gly	Ser
			100					105					110		
Phe	Phe	Tyr	Gly	Glu	Val	Val	Ile	Thr	Pro	Ala	Ile	Ser	Val	Met	Ser
		115					120					125			
Ala	Ile	Lys	Gly	Leu	Glu	Ile	Val	Ala	Pro	Gln	Leu	Asp	Thr	Trp	Val
	130					135					140				
Val	Pro	Leu	Ala	Ile	Ile	Val	Leu	Thr	Leu	Leu	Phe	Ala	Ile	Gln	Lys
145					150					155					160
His	Gly	Thr	Gly	Leu	Val	Gly	Lys	Leu	Phe	Ala	Pro	Ile	Met	Leu	Ala
				165					170					175	
Trp	Phe	Leu	Ile	Leu	Ala	Ala	Leu	Gly	Leu	Arg	Ser	Ile	Ile	Ala	Asn
			180					185					190		
Pro	Asp	Val	Leu	His	Ala	Leu	Asn	Pro	Leu	Trp	Ala	Val	His	Phe	Phe
		195					200					205			
Leu	Lys	Tyr	Lys	Val	Val	Ser	Phe	Val	Ala	Leu	Gly	Ala	Val	Val	Leu
	210					215					220				
Ser	Ile	Thr	Gly	Val	Glu	Ala	Leu	Tyr	Ala	Asp	Met	Gly	His	Phe	Gly
225					230					235					240
Lys	Leu	Pro	Ile	Arg	Val	Ala	Trp	Phe	Ser	Val	Val	Leu	Pro	Ser	Leu
				245					250					255	
Val	Leu	Asn	Tyr	Phe	Gly	Gln	Gly	Ala	Leu	Leu	Leu	Ala	His	Pro	Glu
			260					265					270		
Ala	Ile	Lys	Asn	Pro	Phe	Phe	Leu	Leu	Ala	Pro	Asp	Trp	Ala	Leu	Val
		275					280					285			
Pro	Met	Leu	Ile	Leu	Ala	Thr	Leu	Ala	Thr	Val	Ile	Ala	Ser	Gln	Ala
	290					295					300				
Val	Ile	Ser	Gly	Val	Phe	Ser	Leu	Thr	Arg	Gln	Ala	Val	Arg	Leu	Gly
305					310					315					320
Tyr	Leu	Ser	Pro	Met	Arg	Ile	Ile	His	Thr	Ser	Glu	Met	Glu	Ser	Gly
				325					330					335	
Gln	Ile	Tyr	Ile	Pro	Phe	Val	Asn	Trp	Leu	Leu	Tyr	Phe	Ala	Val	Val
			340					345					350		
Ile	Val	Ile	Val	Ser	Phe	Glu	His	Ser	Ser	Asn	Leu	Ala	Ala	Ala	Tyr
		355					360					365			
Gly	Ile	Ala	Val	Thr	Gly	Thr	Met	Val	Leu	Thr	Ser	Ile	Leu	Ser	Thr
	370					375					380				
Thr	Val	Ala	Tyr	Arg	Asn	Trp	His	Trp	Asn	Lys	Phe	Leu	Val	Gly	Leu
385					390					395					400
Ile	Leu	Val	Gly	Phe	Leu	Cys	Ile	Asp	Val	Pro	Leu	Phe	Ser	Ala	Asn
				405					410					415	
Leu	Asp	Lys	Ile	Val	Ser	Gly	Gly	Trp	Leu	Pro	Leu	Thr	Leu	Gly	Leu
			420					425					430		
Val	Met	Phe	Ile	Val	Met	Thr	Thr	Trp	Lys	Ser	Glu	Arg	Phe	Arg	Leu
		435					440					445			
Leu	Arg	Arg	Met	His	Glu	His	Gly	Asn	Ser	Leu	Glu	Ala	Met	Ile	Ala
	450					455					460				
Ser	Leu	Glu	Lys	Ser	Pro	Pro	Val	Arg	Val	Pro	Gly	Thr	Ala	Val	Tyr
465					470					475					480
Met	Ser	Arg	Ala	Leu	Asn	Val	Ile	Pro	Phe	Ala	Leu	Met	His	Asn	Leu
				485					490					495	
Lys	His	Asn	Lys	Val	Leu	His	Glu	Arg	Val	Ile	Leu	Leu	Thr	Leu	Arg

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<210> 7115
<211> 277
<212> PRT
<213> Enterobacter cloacae
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<210> 7116
<211> 332
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<212> PRT

<213> Enterobacter cloacae

<400> 7116

```

Ile Met Lys Thr Ala Tyr Ile Ala Lys Gln Arg Gln Ile Ser Phe Val
1      5      10      15
Lys Ser His Phe Ser Arg Gln Leu Glu Glu Lys Leu Gly Leu Ile Glu
      20      25      30
Val Gln Ala Pro Ile Leu Ser Arg Val Gly Asp Gly Thr Gln Asp Asn
      35      40      45
Leu Ser Gly Cys Glu Lys Ala Val Gln Val Lys Val Lys Thr Leu Pro
      50      55      60
Asp Ala Gln Phe Glu Val His Ser Leu Ala Lys Trp Lys Arg Gln
65      70      75      80
Thr Leu Gly Gln His Asp Phe Ser Ala Gly Glu Gly Leu Tyr Thr His
      85      90      95
Met Lys Ala Leu Arg Pro Asp Glu Asp Arg Leu Ser Pro Ile His Ser
      100     105     110
Val Tyr Val Asp Gln Trp Asp Trp Glu Arg Val Met Gly Asp Gly Glu
      115     120     125
Arg His Val Gly Thr Leu Lys Ser Thr Val Glu Ala Ile Tyr Ala Gly
      130     135     140
Ile Lys Ala Thr Glu Ala Ala Val Ser Lys Glu Phe Gly Leu Ala Pro
145      150     155     160
Phe Leu Pro Glu Thr Ile His Phe Val His Ser Gln Glu Leu Leu Ser
      165     170     175
Arg Phe Pro Asp Leu Asp Ala Lys Gly Arg Glu Arg Ala Ile Ala Lys
      180     185     190
Glu Leu Gly Ala Val Phe Leu Ile Gly Ile Gly Gly Lys Leu Ser Asp
      195     200     205
Gly Lys Arg His Asp Val Arg Ala Pro Asp Tyr Asp Asp Trp Ser Thr
210      215     220
Val Gly Glu Ser Glu Tyr Ala Gly Leu Asn Gly Asp Ile Leu Val Trp
225      230     235     240
Asn Pro Val Leu Glu Asp Ala Phe Glu Leu Ser Ser Met Gly Ile Arg
      245     250     255
Val Asp Ala Glu Ala Leu Lys Arg Gln Leu Ala Val Thr Gly Asp Glu
      260     265     270
Asp Arg Leu Gln Leu Glu Trp His Gln Ala Leu Leu Arg Gly Glu Met
      275     280     285
Pro Gln Thr Ile Gly Gly Gly Ile Gly Gln Ser Arg Leu Thr Met Leu
      290     295     300
Leu Leu Gln Leu Ser His Ile Gly Gln Val Gln Cys Gly Val Trp Pro
305      310     315     320
Gln Gln Val Arg Glu Ser Val Gly Ser Leu Leu
      325     330

```

<210> 7117

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 7117

```

Arg Asn Val Ser Leu Val Glu Gln Lys Met Lys Lys Gly Thr Val Leu
1      5      10      15
Asn Ser Glu Ile Ser Ser Val Ile Ser Arg Leu Gly His Thr Asp Thr
      20      25      30
Leu Val Val Cys Asp Ala Gly Leu Pro Val Pro Arg Ser Thr Thr Arg
      35      40      45
Ile Asp Met Ala Leu Thr Gln Gly Val Pro Ser Phe Met Gln Val Leu
50      55      60

```

Glu Val Val Thr Ala Glu Met Gln Val Glu Ala Ala Ile Leu Ala Ala
 65 70 75 80
 Glu Ile Lys Gln His Asn Pro Gln Leu His Glu Thr Leu Leu Ser His
 85 90 95
 Ile Glu Gln Leu Gln Gln His Gln Gly Asn Thr Ile Glu Ile Arg Tyr
 100 105 110
 Thr Thr His Glu Gln Cys Lys Gln His Thr Ala His Ser His Ala Val
 115 120 125
 Ile Arg Ser Gly Gly Met Phe Pro Pro Tyr Ala Asn Ile Ile Leu Cys
 130 135 140
 Ala Gly Val Thr Phe
 145 150

<210> 7118

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7118

Pro Trp Cys Thr Pro Thr Ala Ala Arg Leu Ile Pro Ala Leu Pro Ile
 1 5 10 15
 Thr Pro Ile Cys Leu Ala Gly Ser Val Ser Val Ala Arg Trp Val Ser
 20 25 30
 Arg Pro Arg Ser Gly Ser Trp Leu Ser Phe Ser Trp Arg Arg Gly Thr
 35 40 45
 Cys Cys Thr Ile Pro Val Trp Val Val Ile Ser Met Arg Trp Ala Val
 50 55 60
 Thr Lys Arg Gln Arg Ala Cys Pro Val Ser Ala Leu Ile Lys Ser Lys
 65 70 75 80
 Leu Ser Phe Thr Pro Cys Ala Ala Cys Trp Arg Leu Trp Arg Ala Ser
 85 90 95
 Ser Lys Trp Arg Ala Ser Leu Pro His Ser Gln Arg Arg Val Arg Ala
 100 105 110
 Met Ser Trp Met Pro Ser Arg Gln Trp Phe Trp Ala Val Arg Val Leu
 115 120 125
 Ala Gly Gly Lys Gly Arg Ile Val Gly Thr Leu Ile Gly Ala Leu Ile
 130 135 140
 Leu Gly Phe Leu Asn Asn Gly Leu Asn Leu Leu Gly Val Ser Ser Tyr
 145 150 155 160
 Tyr Gln Met Ile Val Lys Ala Val Val Ile Leu Leu Ala Val Leu Val
 165 170 175
 Asp Asn Lys Lys Gln
 180

<210> 7119

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7119

Leu Thr Thr Leu Gln Asp Ile Leu Asp Met Asn Met Lys Lys Leu Ala
 1 5 10 15
 Thr Leu Val Ser Ala Val Ala Leu Ser Ala Thr Val Ser Ala Asn Ala
 20 25 30
 Met Ala Lys Asp Thr Ile Ala Leu Val Val Ser Thr Leu Asn Asn Pro
 35 40 45
 Phe Phe Val Ser Leu Lys Asp Gly Ala Gln Lys Glu Ala Asp Lys Leu
 50 55 60
 Gly Tyr Asn Leu Val Val Leu Asp Ser Gln Asn Asn Pro Ala Lys Glu
 65 70 75 80
 Leu Ala Asn Val Gln Asp Leu Thr Val Arg Gly Thr Lys Ile Leu Leu

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<210> 7120
<211> 299
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Thr	Pro	Asn	Lys 5	Arg	Lys	Val	Trp	His 10	Thr	Pro	Pro	Gly	Asn 15	Thr
Gly	Gly	Ala	Leu 20	Arg	Trp	Thr	Pro	Gln 25	Tyr	Met	Lys	Thr	Ala 30	Gly	Asn
Leu	Val	Val 35	Leu	Gly	Ser	Ile	Asn 40	Ala	Asp	His	Ile	Leu 45	Asn	Leu	Glu
Thr	Phe 50	Pro	Thr	Pro	Gly	Glu 55	Thr	Val	Thr	Gly	Asn 60	Gln	Tyr	Gln	Val
Ala 65	Phe	Gly	Gly	Lys 70	Gly	Ala	Asn	Gln	Ala	Val 75	Ala	Ala	Gly	Arg	Ser 80
Gly	Ala	Asn	Ile 85	Ala	Phe	Ile	Ala	Cys	Thr 90	Gly	Asp	Asp	Asp	Thr 95	Gly
Glu	Arg	Val 100	Arg	Lys	Gln	Leu	Ala	Ser 105	Asp	Asn	Ile	Asp	Ile 110	Ala	Pro
Val	Ser 115	Val	Val	Ala	Gly	Glu	Ser 120	Thr	Gly	Val	Ala	Leu 125	Ile	Phe	Val
Asn 130	Ala	Glu	Gly	Glu	Asn 135	Val	Ile	Gly	Ile	His 140	Ala	Gly	Ala	Asn	Ala
Ala 145	Leu	Thr	Thr	Glu	Arg 150	Val	Glu	Ala	Gln	Arg 155	Gly	Ile	Ile	Ala	Gly 160
Ala	Glu	Ala	Leu 165	Leu	Met	Gln	Leu	Glu	Ser 170	Pro	Val	Glu	Ser	Val 175	Leu
Ala	Ala	Ala 180	Lys	Ile	Ala	His	Glu	Asn 185	His	Thr	Ser	Val	Val 190	Leu	Asn
Pro	Ala	Pro	Ala	Arg	Val	Leu	Ser	Asp	Glu	Leu	Leu	Ala	Leu	Val	Asp


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<210> 7121
<211> 147
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7122
<211> 488
<212> PRT
<213> Enterobacter cloacae
```

<400> 7122															
Thr	Gly	Ala	Ser	Met	Leu	Thr	Leu	Asp	Thr	Leu	Asn	Val	Met	Leu	Ala
1				5					10					15	
Val	Ser	Glu	Glu	Gly	Leu	Ile	Glu	Glu	Val	Val	Ile	Thr	Leu	Leu	Ala
			20					25					30		
Ser	Pro	Gln	Leu	Ala	Ala	Phe	Phe	Glu	Lys	Phe	Pro	Lys	Leu	Arg	Lys
		35					40					45			
Ala	Met	Thr	Asp	Asp	Leu	Pro	Arg	Trp	Arg	Asp	Asn	Leu	Arg	Gln	Arg
	50					55					60				
Phe	Lys	Glu	Thr	Glu	Val	Pro	Pro	Glu	Leu	Thr	Glu	Glu	Val	Ala	Gly
65				70						75				80	
Tyr	Gln	Gln	Cys	Gln	Arg	Leu	Ser	Thr	Pro	Gln	Phe	Ile	Ala	Gln	Leu
				85					90					95	
Gln	Gln	Thr	Leu	Thr	Leu	Leu	Asp	Asn	Val	His	Ser	Pro	Phe	Ala	Ser
			100					105					110		

Gln Ala Arg Ala Leu Val Thr Asp Asn Pro Ser Phe Thr Pro Ala Leu
 115 120 125
 His Thr Leu Phe Leu Gln Arg Trp Arg Leu Ser Leu Val Val Gln Ala
 130 135 140
 Thr Ala Leu Asn Gln Gln Leu Leu Asp Glu Glu Arg Glu Gln Leu Leu
 145 150 155 160
 Ser Glu Val Gln Glu Arg Met Thr Leu Ser Gly Gln Leu Glu Gln Val
 165 170 175
 Leu Val Glu Asn Glu Asn Ala Ala Gly Arg Leu Trp Asp Met Ser Ala
 180 185 190
 Gly Gln Leu Lys Arg Gly Asp Tyr Gln Leu Ile Val Lys Tyr Gly Asp
 195 200 205
 Phe Leu Ala Gln Gln Pro Glu Leu Met Lys Leu Ala Glu Gln Leu Gly
 210 215 220
 Arg Ser Arg Glu Ala Arg Ser Val Pro Lys Lys Asp Ala Pro Met Glu
 225 230 235 240
 Thr Phe Arg Thr Leu Val Arg Lys Pro Ser Thr Val Pro Glu Gln Val
 245 250 255
 Asp Gly Leu Gln Gln Ser Asp Asp Ile Leu Arg Leu Leu Pro Thr Glu
 260 265 270
 Leu Ser Thr Leu Gly Met Thr Glu Leu Glu Tyr Glu Phe Tyr Arg Arg
 275 280 285
 Leu Val Glu Lys Gln Leu Ile Thr Tyr Arg Leu His Gly Glu Ala Trp
 290 295 300
 Arg Glu Lys Ile Ser Gln Arg Pro Val Val His Gln Asp Phe Asp Glu
 305 310 315 320
 Gln Pro Arg Gly Pro Phe Ile Val Cys Val Asp Thr Ser Gly Ser Met
 325 330 335
 Gly Gly Phe Asn Glu Gln Cys Ala Lys Ala Phe Cys Leu Ala Leu Met
 340 345 350
 Arg Val Ala Leu Ala Asp Arg Arg Cys Tyr Ile Met Leu Phe Ser
 355 360 365
 Ser Glu Val Val Gly Tyr Glu Leu Thr Ser Pro Gln Gly Leu Glu Gln
 370 375 380
 Ala Ile Arg Phe Leu Ser Gln Arg Phe Arg Gly Gly Thr Asp Leu Ala
 385 390 395 400
 Ser Cys Phe Arg Ser Ile Ile Glu Arg Met Gln Gly Gly Asp Trp Tyr
 405 410 415
 Asp Ala Asp Ala Val Val Ile Ser Asp Phe Ile Ala Gln Arg Leu Pro
 420 425 430
 Asp Glu Val Val Asn Lys Val Lys Glu Met Gln Arg Val His Gln His
 435 440 445
 Arg Phe His Ala Val Ala Met Ser Ala His Gly Lys Pro Gly Ile Met
 450 455 460
 Arg Ile Phe Asp His Ile Trp Arg Phe Asp Thr Gly Leu Arg Ser Arg
 465 470 475 480
 Leu Leu Arg Arg Trp Arg Arg
 485

<210> 7123

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7123

Met Thr Glu Lys Lys Ala Arg Ser Met Ala Gly Leu Pro Trp Ile Ala
 1 5 10 15
 Ala Met Ala Phe Phe Met Gln Ala Leu Asp Ala Thr Ile Leu Asn Thr
 20 25 30
 Ala Leu Pro Ala Ile Ala Gln Ser Leu Asn Arg Ser Pro Leu Ala Met
 35 40 45

Gln Ser Ala Ile Ile Ser Tyr Thr Leu Thr Val Ala Met Leu Ile Pro
 50 55 60
 Val Ser Gly Trp Leu Ala Asp Arg Phe Gly Thr Arg Lys Val Phe Met
 65 70 75 80
 Leu Ala Val Thr Leu Phe Thr Leu Gly Ser Leu Ala Cys Ala Leu Ser
 85 90 95
 Thr Ser Leu Thr Glu Leu Val Ile Phe Arg Val Leu Gln Gly Ile Gly
 100 105 110
 Gly Ala Met Met Met Pro Val Ala Arg Leu Ala Leu Leu Arg Ala Tyr
 115 120 125
 Pro Arg Ser Glu Leu Leu Pro Val Leu Asn Phe Val Thr Met Pro Gly
 130 135 140
 Leu Val Gly Pro Ile Leu Gly Pro Val Leu Gly Gly Val Leu Val Thr
 145 150 155 160
 Trp Ala Ser Trp His Trp Ile Phe Leu Ile Asn Ile Pro Ile Gly Val
 165 170 175
 Ala Gly Leu Ile Tyr Ala Arg Lys Tyr Met Pro Asn Phe Thr Thr Pro
 180 185 190
 Arg Arg Ser Phe Asp Met Gly Gly Phe Phe Leu Phe Gly Leu Ser Leu
 195 200 205
 Val Leu Phe Ser Ser Gly Met Glu Leu Phe Gly Glu Lys Ile Val Ser
 210 215 220
 Thr Trp Leu Ala Leu Ala Val Ile Leu Ser Gly Ile Leu Leu Phe Leu
 225 230 235 240
 Leu Tyr Ile Arg His Ala Arg Arg His Pro Thr Pro Leu Ile Ser Leu
 245 250 255
 Ser Leu Phe Asn Thr Arg Thr Phe Ser Val Gly Ile Ala Gly Asn Ile
 260 265 270
 Ala Ser Arg Leu Gly Thr Gly Cys Val Pro Phe Leu Met Pro Leu Met
 275 280 285
 Leu Gln Val Gly Phe Gly Tyr Pro Ala Leu Ile Ala Gly Cys Met Met
 290 295 300
 Ala Pro Thr Ala Met Gly Ser Ile Leu Ala Lys Ser Thr Val Thr Gln
 305 310 315 320
 Val Leu Arg Trp Phe Gly Tyr Arg Lys Thr Leu Val Gly Val Thr Ile
 325 330 335
 Phe Ile Gly Leu Met Ile Ala Gln Phe Ser Leu Gln Ser Ala Ala Leu
 340 345 350
 Pro Ile Trp Met Leu Ile Leu Pro Leu Phe Val Leu Gly Met Ala Met
 355 360 365
 Ser Thr Gln Phe Thr Ser Met Asn Thr Ile Thr Leu Ala Asp Leu Thr
 370 375 380
 Asp Glu Asn Ala Ser Ser Gly Asn Ser Val Leu Ala Val Thr Gln Gln
 385 390 395 400
 Leu Ser Ile Ser Leu Gly Val Ala Val Ser Ala Ala Val Leu Arg Phe
 405 410 415
 Tyr Glu Gly Phe Asp Gly Thr Asn Thr Val Glu Gln Phe His Tyr Thr
 420 425 430
 Phe Ile Thr Met Gly Ala Leu Thr Val Val Ser Ala Val Val Phe Met
 435 440 445
 Leu Leu Lys Pro Lys Asp Gly Arg Asn Leu Ile Lys Glu Arg His Lys
 450 455 460
 Glu Lys Ala Lys Pro Asn Arg Val Pro Ser Glu Gln Glu
 465 470 475

<210> 7124

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7124

Arg	Arg	Thr	Ser	Ala	Tyr	Tyr	Gln	Ala	Arg	Pro	Lys	Arg	Leu	Tyr	Ser
1			5					10						15	
Leu	Gln	Leu	Ala	Ala	Thr	Thr	Ala	Lys	Gly	Cys	Lys	Thr	Ile	Met	Ala
			20					25					30		
His	Ser	His	Leu	Leu	Ala	Glu	Arg	Ile	Ser	Arg	Leu	Ser	Ser	Ala	Leu
		35					40					45			
Glu	Lys	Gly	Leu	Tyr	Glu	Arg	Ser	His	Ala	Ile	Arg	Leu	Cys	Leu	Leu
	50					55					60				
Ala	Ala	Leu	Ser	Gly	Glu	Ser	Val	Phe	Leu	Leu	Gly	Pro	Pro	Gly	Ile
65					70					75					80
Ala	Lys	Ser	Leu	Ile	Ala	Arg	Arg	Leu	Lys	Phe	Ala	Phe	Gln	Asn	Ala
				85					90					95	
Arg	Ala	Phe	Glu	Tyr	Leu	Met	Thr	Arg	Phe	Ser	Thr	Pro	Glu	Glu	Val
			100					105					110		
Phe	Gly	Pro	Leu	Ser	Ile	Gln	Ala	Leu	Lys	Asp	Glu	Gly	Arg	Tyr	Glu
		115					120					125			
Arg	Leu	Thr	Ala	Gly	Tyr	Leu	Pro	Glu	Ala	Glu	Ile	Val	Phe	Leu	Asp
	130					135						140			
Glu	Ile	Trp	Lys	Ala	Gly	Pro	Ala	Ile	Leu	Asn	Thr	Leu	Leu	Thr	Ala
145					150					155					160
Ile	Asn	Glu	Arg	Arg	Phe	Arg	Asn	Gly	Ala	Ser	Glu	Glu	Lys	Ile	Pro
				165					170					175	
Met	Arg	Leu	Leu	Val	Ala	Ala	Ser	Asn	Glu	Leu	Pro	Glu	Ala	Asp	Ser
			180					185					190		
Ser	Leu	Glu	Ala	Leu	Tyr	Asp	Arg	Met	Leu	Ile	Arg	Leu	Trp	Leu	Asp
		195					200					205			
Lys	Val	Gln	Asp	Lys	Ser	Asn	Phe	Arg	Ser	Met	Leu	Val	Ser	Gln	Gln
	210					215					220				
Asp	Glu	Asn	Glu	Asn	Pro	Val	Ala	Ala	Ser	Leu	Gln	Val	Thr	Asp	Glu
225					230					235					240
Glu	Tyr	His	Gln	Trp	Gln	Glu	Glu	Ile	Gly	Lys	Ile	Lys	Leu	Pro	Asp
				245					250					255	
Pro	Val	Phe	Glu	Leu	Ile	Phe	Met	Leu	Arg	Gln	Gln	Leu	Asp	Leu	Leu
		260						265					270		
Pro	Ser	Ala	Pro	Tyr	Val	Ser	Asp	Arg	Arg	Trp	Lys	Lys	Ala	Ile	Arg
		275					280					285			
Leu	Leu	Gln	Ala	Ser	Ala	Leu	Phe	Ser	Gly	Arg	Asp	Ala	Val	Ala	Pro
	290					295					300				
Ile	Asp	Leu	Ile	Leu	Leu	Lys	Asp	Cys	Leu	Trp	His	Asp	Ala	Glu	Gly
305					310					315					320
Met	Asn	Leu	Met	Gln	Gln	Gln	Leu	Asp	Val	Leu	Met	Thr	Gly	His	Ala
				325					330					335	
Trp	Gly	Gln	Gln	Ser	Met	Leu	Asn	Gln	Leu	Gly	Ala	Ile	Ala	Gln	Arg
			340					345					350		
Arg	Leu	Gln	Leu	Gln	Gln	Gln	Gln	Ser	Asp	Lys	Thr	Ala	Leu	Lys	Val
		355					360					365			
Asn	Arg	Leu	Gly	Gly	Met	Phe	Ala	Arg	Lys	Pro	His	Tyr	Glu	Leu	Pro
	370					375					380				
Ala	Gly	Leu	Thr	Asp	Ala	Ser	Leu	Thr	Leu	Leu	Gln	Gln	Pro	Leu	
385					390					395					400
Lys	Leu	His	Asp	Met	Gln	Val	Val	His	Val	Thr	Ile	Glu	Arg	Val	Ala
				405					410					415	
Leu	Val	Gln	Trp	Leu	Asp	Lys	Gly	Gly	Glu	Ile	Arg	Gly	Lys	Leu	Asn
			420					425					430		
Gly	Ile	Gly	Phe	Ala	Gln	Pro	Leu	Ser	Met	Glu	Val	Asp	Ser	Ser	Gln
		435					440					445			
His	Leu	Val	Ile	Arg	Asp	Val	Ser	Leu	Gln	Gly	Ser	Arg	Leu	Ala	Leu
	450					455					460				
Pro	Gly	Thr	Ala	Ser	Asp	Thr	Val	Pro	Glu	Glu	Ile	Lys	Gln	Gln	Leu
465					470					475					480
Asp	Ala	Leu	Asp	Asn	Glu	Trp	His	Gln	Gln	His	Thr	Arg	Phe	Ser	Glu

				485					490					495			
Gln	Gln	Lys	Cys	Leu	Phe	Ile	His	Ser	Asp	Trp	Leu	Gly	Arg	Ile	Glu		
			500					505					510				
Ala	Ser	Leu	Gln	Asp	Val	Ser	Ala	Gln	Ile	Lys	Gln	Ala	Arg	Gln	Cys		
		515					520					525					

<210> 7125
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 7125

Glu	Lys	Pro	Met	Glu	Asn	Tyr	Gln	Ile	Asp	Asn	Leu	Asp	Arg	Gly	Ile		
1				5					10					15			
Leu	Glu	Ala	Leu	Met	Ala	Asn	Ala	Arg	Thr	Ala	Tyr	Ala	Glu	Leu	Asp		
			20					25					30				
Lys	Gln	Phe	Gly	Val	Ser	Pro	Gly	Thr	Ile	His	Val	Arg	Val	Glu	Lys		
		35					40					45					
Met	Lys	Gln	Ala	Gly	Ile	Ile	Thr	Gly	Ala	Arg	Ile	Asp	Val	Ser	Pro		
	50					55					60						
Lys	Gln	Phe	Gly	Tyr	Asp	Val	Cys	Cys	Phe	Ile	Gly	Ile	Ile	Met	Lys		
65				70					75					80			
Ser	Ala	Lys	Asp	Tyr	Pro	Ser	Ala	Leu	Glu	Lys	Leu	Asn	Ala	Leu	Asp		
			85					90					95				
Glu	Val	Thr	Glu	Ala	Tyr	Tyr	Thr	Thr	Gly	His	Tyr	Ser	Ile	Phe	Ile		
			100					105					110				
Lys	Val	Met	Cys	Arg	Ser	Ile	Asp	Ala	Leu	Gln	Gln	Val	Leu	Ile	Asn		
		115					120					125					
Lys	Ile	Gln	Thr	Ile	Asp	Glu	Ile	Gln	Ser	Thr	Glu	Thr	Leu	Ile	Ser		
	130					135					140						
Leu	Gln	Asn	Pro	Ile	Met	Arg	Thr	Ile	Arg	Pro							
145					150				155								

<210> 7126
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 7126

Ser	Gly	Asn	Phe	Ile	Pro	Thr	Phe	Ser	Thr	Gly	Arg	Ser	Gln	Leu	Val		
1				5					10					15			
His	Ser	Val	Gln	Trp	Pro	Pro	Leu	Tyr	Leu	Ser	Glu	Arg	Ser	Met	Ala		
			20					25					30				
Asp	Ile	Thr	Leu	Ile	Ser	Gly	Ser	Thr	Leu	Gly	Gly	Ala	Glu	Tyr	Val		
		35					40					45					
Ala	Glu	His	Leu	Ala	Glu	Lys	Leu	Glu	Asp	Ala	Gly	Phe	Ser	Thr	Gln		
	50					55					60						
Thr	Leu	His	Gly	Pro	Leu	Leu	Glu	Asp	Leu	Pro	Thr	Asp	Gly	Val	Trp		
65			70					75						80			
Leu	Leu	Ile	Thr	Ser	Thr	His	Gly	Ala	Gly	Asp	Leu	Pro	Asp	Asn	Leu		
			85					90					95				
Gln	Pro	Leu	Tyr	Asp	Glu	Leu	Leu	Glu	Gln	Gln	Pro	Asp	Leu	Ser	Asn		
			100					105					110				
Val	Arg	Phe	Gly	Ala	Val	Gly	Ile	Gly	Ser	Arg	Glu	Tyr	Asp	Thr	Phe		
		115					120					125					
Cys	Gly	Ala	Ile	Glu	Lys	Val	Glu	Ala	Ala	Val	Thr	Ala	Cys	Gly	Ala		
	130					135					140						
Lys	Gln	Leu	Gly	Glu	Thr	Leu	Lys	Ile	Asn	Ile	Leu	Asp	His	Asp	Ile		
145					150				155						160		

Pro Glu Asp Pro Ala Glu Ile Trp Leu Ala Glu Trp Lys Asn Leu Leu
 165 170 175
 Lys Asn Asp
 180

<210> 7127

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 7127

Trp His Val Val Ser Arg Ser Leu Arg Tyr Leu His Arg Leu Tyr Ile
 1 5 10 15
 Gly Ser Thr Ile Leu Ser Gln Ser Lys Phe Gln Arg Ala Phe Leu His
 20 25 30
 Pro Arg Tyr Trp Phe Thr Trp Phe Gly Leu Gly Val Leu Trp Leu Leu
 35 40 45
 Val Gln Leu Pro Tyr Pro Val Ile Arg Phe Leu Gly Ser Lys Leu Gly
 50 55 60
 Ser Ala Ser Arg His Phe Leu Lys Arg Arg Glu Ser Ile Ala Arg Lys
 65 70 75 80
 Asn Leu Glu Leu Cys Phe Pro His Tyr Asn Ala Gln Gln Arg Glu Thr
 85 90 95
 Leu Ile Ala Glu Asn Phe Lys Ser Ile Gly Met Ala Leu Leu Glu Thr
 100 105 110
 Gly Met Ala Trp Phe Trp Pro Asp Glu Arg Val Arg Lys Trp Phe Asp
 115 120 125
 Val Glu Gly Leu Asp Asn Leu Lys Arg Ala Gln Met Gln Asn Arg Gly
 130 135 140
 Val Met Val Val Gly Leu His Phe Met Ser Leu Glu Leu Gly Gly Arg
 145 150 155 160
 Val Met Gly Leu Cys Gln Pro Met Met Ala Thr Tyr Arg Pro His Asn
 165 170 175
 Ser Ala Leu Met Glu Trp Val Gln Thr Arg Gly Arg Met Arg Ser Asn
 180 185 190
 Lys Ala Met Ile Ser Arg Asn Asn Leu Arg Gly Met Val Gly Ala Leu
 195 200 205
 Lys Lys Gly Glu Ala Val Trp Phe Ala Pro Asp Gln Asp Tyr Gly Pro
 210 215 220
 Lys Gly Ser Ser Phe Ala Pro Phe Phe Ala Val Lys Asp Val Ala Thr
 225 230 235 240
 Thr Asn Gly Thr Phe Val Ile Ser Arg Leu Ser Gly Ala Ala Met Leu
 245 250 255
 Thr Val Thr Met Val Arg Lys Ala Asp Lys Ser Gly Tyr Arg Leu His
 260 265 270
 Ile Ser Pro Glu Met Ala Asn Tyr Pro Glu Asp Glu Ser Glu Ala Ala
 275 280 285
 Thr Phe Ile Asn Lys Val Ile Glu Phe Glu Ile Met Arg Ala Pro Glu
 290 295 300
 Gln Tyr Leu Trp Met His Arg Arg Phe Lys Thr Arg Pro Leu Gly Glu
 305 310 315 320
 Ala Ser Leu Tyr Ile
 325

<210> 7128

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7128

Gln Met Lys Val Ile Ile Val Glu Asp Glu Phe Leu Ala Gln Gln Glu

1				5					10				15			
Leu	Ser	Trp	Leu	Ile	Lys	Thr	His	Ser	Gln	Met	Glu	Ile	Val	Gly	Cys	
			20					25					30			
Phe	Glu	Asp	Gly	Leu	Asp	Val	Leu	Lys	Phe	Leu	Gln	His	Asn	Arg	Val	
		35					40					45				
Asp	Ala	Ile	Phe	Leu	Asp	Ile	Asn	Ile	Pro	Ser	Leu	Asp	Gly	Val	Leu	
	50					55					60					
Leu	Ala	Gln	Asn	Ile	Asn	Gln	Phe	Ala	His	Lys	Pro	Phe	Ile	Val	Phe	
65					70					75					80	
Val	Thr	Ala	Trp	Lys	Glu	His	Ala	Val	Glu	Ala	Phe	Glu	Leu	Glu	Ala	
			85						90					95		
Phe	Asp	Tyr	Ile	Leu	Lys	Pro	Tyr	Gln	Glu	Ser	Arg	Ile	Ile	Ser	Met	
			100					105					110			
Leu	His	Lys	Leu	Glu	Ala	Ala	Trp	Gln	Gln	Gln	Ser	Leu	Pro	Ala	Ser	
		115					120					125				
Ala	Ser	Pro	Val	Ala	Arg	Glu	Asn	Asp	Thr	Ile	Asn	Leu	Val	Lys	Asp	
	130					135					140					
Glu	Arg	Ile	Ile	Val	Thr	Pro	Val	Asp	Asp	Ile	Tyr	Tyr	Ala	Glu	Ala	
145					150					155					160	
His	Glu	Lys	Met	Thr	Phe	Val	Tyr	Thr	Arg	Arg	Glu	Ser	Tyr	Val	Met	
			165						170					175		
Ala	Met	Asn	Ile	Thr	Glu	Phe	Cys	Asn	Lys	Leu	Pro	Ala	Ala	His	Phe	
		180						185					190			
Phe	Arg	Cys	His	Arg	Ser	Phe	Cys	Val	Asn	Leu	Asn	Lys	Ile	Arg	Glu	
		195					200					205				
Ile	Glu	Pro	Trp	Phe	Asn	Asn	Thr	Tyr	Ile	Leu	Arg	Leu	Lys	Asp	Leu	
	210				215						220					
Asp	Phe	Gln	Val	Pro	Val	Ser	Arg	Ser	Arg	Val	Lys	Glu	Phe	Arg	Gln	
225					230					235					240	
Leu	Met	His	Leu													
				245												

<210> 7129

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 7129

Ala	Val	Leu	Tyr	Lys	Glu	Ile	Ile	Met	Leu	His	Pro	Arg	Ala	Arg	Thr	
1				5					10					15		
Met	Leu	Leu	Leu	Ala	Val	Pro	Ala	Leu	Ile	Ile	Gly	Val	Ala	Ser	Ser	
		20						25					30			
Leu	Val	Leu	Ile	Val	Val	Met	Lys	Val	Ala	Ala	Val	Leu	Gln	Thr	Ile	
		35					40					45				
Leu	Trp	Thr	Ala	Leu	Pro	Val	Lys	Leu	Gly	Ile	Ser	Ile	Asp	Ser	Pro	
	50					55					60					
Gly	Trp	Ile	Met	Val	Met	Leu	Thr	Leu	Thr	Gly	Ile	Ala	Val	Gly	Leu	
65					70					75					80	
Val	Ile	Arg	Tyr	Ser	Pro	Gly	His	Ala	Gly	Pro	Asp	Pro	Ala	Leu	Glu	
			85					90						95		
Pro	Leu	Ile	Gly	Ala	Pro	Val	Ser	Pro	Ser	Ala	Leu	Pro	Gly	Leu	Ile	
		100						105					110			
Ile	Ala	Leu	Ile	Ile	Gly	Leu	Ala	Gly	Gly	Val	Ser	Leu	Gly	Pro	Glu	
		115					120					125				
His	Pro	Ile	Met	Ala	Val	Asn	Ile	Ala	Leu	Ala	Val	Phe	Leu	Gly	Ala	
	130					135					140					
Arg	Leu	Phe	Pro	Arg	Val	Gly	Ala	Leu	Asp	Trp	Thr	Ile	Leu	Ala	Ser	
145					150					155					160	
Ala	Gly	Thr	Ile	Gly	Ala	Leu	Phe	Gly	Thr	Pro	Val	Ala	Ala	Ala	Leu	
			165					170						175		
Ile	Phe	Ser	Gln	Thr	Leu	Ser	Ser	Asp	His	Glu	Val	Pro	Leu	Trp	Asp	

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<210> 7130
<211> 319
<212> PRT
<213> Enterobacter cloacae
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Met	Ser	Asn	Tyr	Pro	Glu	Gly	Ala	Val	Met	Lys	Asp	Ile	Asn	Glu	Glu
1				5					10					15	
Lys	Ile	Gly	Glu	Asn	Asn	Glu	Glu	Leu	Glu	Ile	Glu	Ser	Glu	Glu	Lys
			20					25					30		
Asp	Arg	Gly	Glu	Glu	Ile	Glu	Val	Asp	Glu	Asp	Arg	Leu	Pro	Ser	Arg
		35					40					45			
Ala	Met	Ala	Ile	His	Glu	His	Ile	Arg	Gln	Asp	Gly	Glu	Lys	Glu	Met
		50				55					60				
Glu	Arg	Asp	Ala	Met	Ala	Leu	Leu	Trp	Ser	Ala	Ile	Ala	Ala	Gly	Leu
65					70					75					80
Ser	Met	Gly	Ala	Ser	Leu	Leu	Ala	Lys	Gly	Ile	Phe	His	Val	Gln	Leu
				85					90					95	
Glu	Gly	Val	Pro	Gly	Gly	Phe	Leu	Leu	Glu	Asn	Leu	Gly	Tyr	Thr	Phe
			100					105					110		
Gly	Phe	Ile	Ile	Val	Ile	Met	Ala	Arg	Gln	Gln	Leu	Phe	Thr	Glu	Asn
			115				120					125			
Thr	Val	Thr	Ala	Val	Leu	Pro	Val	Met	Gln	Asn	Pro	Thr	Leu	Gly	Asn
			130			135					140				
Phe	Gly	Leu	Leu	Met	Arg	Leu	Trp	Ser	Val	Val	Leu	Leu	Gly	Asn	Leu
145					150					155					160
Ile	Gly	Thr	Gly	Ile	Ala	Ala	Trp	Ala	Phe	Glu	Tyr	Met	Pro	Ile	Phe
				165					170					175	
Asp	Glu	Pro	Thr	Arg	Asp	Ala	Phe	Val	Lys	Ile	Gly	Met	Asp	Val	Met

Ile	Asp	Ile	Gly	Gly	Val	Thr	Ala	Val	Pro	Cys	Phe	Ile	Thr	Ser	Ile
		115					120					125			
Ile	Ala	Gly	Leu	Leu	Ser	Gly	Trp	Ile	Asn	Arg	Lys	Ile	Pro	Lys	Lys
	130					135					140				
Gln	His	Trp	Arg	Ala	Gly	Ile	Ile	Ala	Gly	Met	Val	Cys	Glu	Thr	Leu
145					150					155					160
Thr	Met	Ile	Leu	Val	Ile	Val	Trp	Ala	Pro	Thr	Val	Ala	Leu	Gly	Leu
				165					170					175	
Asp	Ile	Val	Ser	Lys	Ile	Gly	Ile	Pro	Met	Ile	Leu	Gly	Ser	Val	Cys
			180					185					190		
Ile	Gly	Phe	Ile	Val	Leu	Leu	Val	Gln	Ser	Val	Glu	Gly	Glu	Lys	Glu
	195						200					205			
Ala	Ser	Ala	Ala	Arg	Gln	Ala	Lys	Leu	Ala	Leu	Asp	Ile	Ala	Asn	Lys
	210					215					220				
Thr	Leu	Pro	Leu	Phe	Arg	His	Val	Asn	Ala	Glu	Ser	Leu	Arg	Gln	Val
225					230					235					240
Cys	Asp	Ile	Ile	Arg	Arg	Asp	Ile	His	Ala	Asp	Ala	Val	Ala	Ile	Thr
				245					250					255	
Asn	Ile	Asp	His	Val	Leu	Ala	Tyr	Val	Gly	Val	Gly	Glu	His	Asn	Tyr
			260					265					270		
Arg	Asp	Ser	Asp	Asp	Thr	Ile	Ser	Pro	Thr	Thr	Arg	Gln	Ala	Ile	Asn
		275						280				285			
Tyr	Gly	Lys	Ile	Ile	Ile	Lys	Asn	Asn	Asp	Glu	Ala	His	Arg	Thr	Pro
	290					295					300				
Glu	Ile	His	Ser	Met	Leu	Val	Ile	Pro	Leu	Trp	Glu	Lys	Gly	Val	Val
305					310					315					320
Thr	Gly	Thr	Leu	Lys	Ile	Tyr	Tyr	Cys	His	Ala	His	Gln	Ile	Thr	Ser
				325					330					335	
Ser	Leu	Gln	Glu	Met	Ala	Ile	Gly	Leu	Ser	Gln	Ile	Ile	Ser	Thr	Gln
			340					345					350		
Leu	Glu	Val	Ser	Arg	Ala	Glu	Gln	Leu	Arg	Glu	Met	Ala	Asn	Lys	Ala
		355					360					365			
Glu	Leu	Arg	Ala	Leu	Gln	Ser	Lys	Ile	Asn	Pro	His	Phe	Leu	Phe	Asn
	370					375					380				
Ala	Leu	Asn	Ala	Ile	Ser	Ser	Ser	Ile	Arg	Leu	Asn	Pro	Asp	Thr	Ala
385					390					395					400
Arg	Gln	Leu	Ile	Phe	Asn	Leu	Ser	Arg	Tyr	Leu	Arg	Tyr	Asn	Ile	Glu
				405					410					415	
Leu	Lys	Asp	Asp	Glu	Gln	Ile	Asp	Ile	Lys	Lys	Glu	Leu	Tyr	Gln	Ile
			420					425					430		
Lys	Asp	Tyr	Ile	Ala	Ile	Glu	Gln	Ala	Arg	Phe	Gly	Asp	Lys	Leu	Thr
		435					440					445			
Val	Ile	Tyr	Asp	Ile	Asp	Glu	Glu	Val	Asn	Cys	Val	Ile	Pro	Ser	Leu
	450					455					460				
Leu	Ile	Gln	Pro	Leu	Val	Glu	Asn	Ala	Ile	Val	His	Gly	Ile	Gln	Pro
465					470					475					480
Cys	Lys	Gly	Lys	Gly	Val	Val	Thr	Ile	Ser	Val	Thr	Glu	Ser	Gly	Asn
				485					490					495	
Arg	Val	Arg	Ile	Ala	Val	Arg	Asp	Thr	Gly	His	Gly	Ile	Asp	Pro	Lys
			500					505					510		
Val	Ile	Glu	Arg	Val	Lys	Ser	Asn	Glu	Met	Pro	Gly	Asn	Lys	Ile	Gly
		515					520					525			
Leu	Leu	Asn	Val	His	His	Arg	Val	Lys	Leu	Leu	Tyr	Gly	Asp	Gly	Leu
	530					535					540				
His	Ile	His	Arg	Leu	Glu	Pro	Gly	Thr	Glu	Ile	Ala	Phe	Tyr	Val	Pro
545					550					555					560
Asn	Glu	Arg	Thr	Pro	Val	Asn	Ala	Pro	Ile	Ser	Leu	Leu	Pro		
				565					570					575	

<210> 7133

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 7133

[illegible]

<210> 7134

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7134

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Arg Asp Ser Glu Glu Ser Met Ala Glu Phe Ser Pro Glu Arg Arg Phe
1      5      10      15
Thr Arg Ile Asp Arg Leu Pro Pro Tyr Val Phe Asn Ile Thr Ala Glu
20      25      30
Leu Lys Met Ala Ala Arg Arg Arg Gly Glu Asp Ile Ile Asp Phe Ser
35      40      45
Met Gly Asn Pro Asp Gly Pro Thr Pro Pro His Ile Val Glu Lys Leu
50      55      60
Cys Thr Val Ala Gln Arg Pro Asp Thr His Gly Tyr Ser Thr Ser Arg
65      70      75      80
Gly Ile Pro Arg Leu Arg Arg Ala Ile Ser Arg Trp Tyr Gln Asp Arg
85      90      95
Tyr Gln Val Asp Ile Asp Pro Glu Asn Glu Ala Ile Val Thr Ile Gly
100     105     110
Ser Lys Glu Gly Leu Ala His Leu Met Leu Ala Thr Leu Asp His Gly
115     120     125
Asp Thr Val Leu Val Pro Asn Pro Ser Tyr Pro Ile His Ile Tyr Gly
130     135     140
Ala Val Ile Ala Gly Ala Gln Val Arg Ser Val Pro Leu Val Glu Gly
145     150     155     160
Val Asp Phe Phe Asn Glu Leu Glu Arg Ala Ile Arg Glu Ser Tyr Pro
165     170     175
Lys Pro Lys Met Met Ile Leu Gly Phe Pro Ser Asn Pro Thr Ala Gln
180     185     190
Cys Val Glu Leu Glu Phe Phe Glu Lys Val Val Ala Leu Ala Lys Arg
195     200     205
Tyr Asp Val Leu Val Val His Asp Leu Ala Tyr Ala Asp Ile Val Tyr
210     215     220
Asp Gly Trp Lys Ala Pro Ser Ile Met Gln Val Pro Gly Ala Arg Asp
225     230     235     240
Val Ala Val Glu Phe Phe Thr Leu Ser Lys Ser Tyr Asn Met Ala Gly
245     250     255
Trp Arg Ile Gly Phe Met Val Gly Asn Lys Thr Leu Val Ser Ala Leu
260     265     270
Ala Arg Ile Lys Ser Tyr His Asp Tyr Gly Thr Phe Thr Pro Leu Gln
275     280     285
Val Ala Ala Ile Ala Ala Leu Glu Gly Asp Gln Gln Cys Val Leu Asp
290     295     300
Ile Ala Ala Gln Tyr Lys Arg Arg Arg Asp Val Leu Val Lys Gly Leu
305     310     315     320
His Glu Ala Gly Trp Met Val Glu Met Pro Lys Ala Ser Met Tyr Val
325     330     335
Trp Ala Lys Ile Pro Glu Pro Tyr Ala Ala Met Gly Ser Leu Glu Phe
340     345     350
Ala Lys Lys Leu Leu Gln Asp Ala Lys Val Cys Val Ser Pro Gly Ile
355     360     365
Gly Phe Gly Asp Tyr Gly Asp Thr His Val Arg Phe Ala Leu Ile Glu
370     375     380
Asn Ser Asp Arg Ile Arg Gln Ala Val Arg Gly Ile Lys Ser Met Phe
385     390     395     400
Arg Ala Asp Gly Leu Leu Ala Ala Lys Ser Val Ala Glu Gln Pro Glu
405     410     415
Ser

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<210> 7135
 <211> 327
 <212> PRT
 <213> Enterobacter cloacae

<400> 7135

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Arg Ser Ser Arg Arg Met Thr Lys Tyr Ala Leu Val Gly Asp Val Gly
1      5      10      15
Gly Thr Asn Ala Arg Leu Ala Leu Cys Asp Val Asn Ser Gly Glu Ile
20
Ser Gln Ala Lys Thr Tyr Ser Gly Leu Asp Tyr Pro Ser Leu Glu Ala
35      40      45
Val Val Arg Val Tyr Leu Glu His Lys Val Ser Val Glu Asp Gly
50      55      60
Cys Ile Ala Ile Ala Cys Pro Ile Thr Gly Asp Trp Val Ala Met Thr
65      70      75      80
Asn His Thr Trp Ala Phe Ser Ile Ala Glu Met Arg Lys Asn Leu Gly
85      90      95
Phe Ser His Leu Glu Ile Ile Asn Asp Phe Thr Ala Val Ser Met Ala
100      105      110
Ile Pro Met Leu Lys Pro Glu His Leu Ile Gln Phe Gly Gly Thr Ala
115      120      125
Pro Val Glu Gly Lys Pro Ile Ala Val Tyr Gly Ala Gly Thr Gly Leu
130      135      140
Gly Val Ala His Leu Val His Val Asp Lys Arg Trp Val Ser Leu Pro
145      150      155      160
Gly Glu Gly Gly His Val Asp Phe Ala Pro Asn Ser Glu Glu Glu Gly
165      170      175
Ile Ile Leu Glu Glu Leu Arg Ala Glu Ile Gly His Val Ser Ala Glu
180      185      190
Arg Val Leu Ser Gly Pro Gly Leu Val Asn Leu Tyr Arg Ala Ile Val
195      200      205
Lys Ser Asp Gly Arg Leu Pro Glu Asn Leu Gln Pro Lys Asp Val Thr
210      215      220
Glu Arg Ala Leu Ala Asp Ser Cys Ile Asp Cys Arg Arg Ala Leu Ser
225      230      235      240
Leu Phe Cys Val Ile Met Gly Arg Phe Gly Gly Asn Leu Ala Leu Asn
245      250      255
Leu Gly Thr Phe Gly Gly Val Tyr Ile Ala Gly Gly Ile Val Pro Arg
260      265      270
Phe Leu Asp Phe Phe Thr Ala Ser Gly Phe Arg Gly Gly Phe Glu Asp
275      280      285
Lys Gly Arg Phe Arg Ser Tyr Val Gln Asp Ile Pro Val Tyr Leu Ile
290      295      300
Val His Asp Asn Pro Gly Leu Leu Gly Ser Gly Ala His Leu Arg Gln
305      310      315      320
Val Leu Gly Gln Ile Leu
325

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<210> 7136
 <211> 472
 <212> PRT
 <213> Enterobacter cloacae

<400> 7136

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Ile Cys Val Pro Ala Cys Leu Leu Lys Val Gln Thr Met Glu Thr Tyr
1      5      10      15
Leu Gln Thr Val Lys Glu Glu Trp Val Lys Leu Ile Asn Glu Thr Asp
20      25      30
Pro Asp Val His Arg Leu Ala Thr Glu Leu Ala Arg Asp Asn Ala Thr
35      40      45

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Pro Leu Val Ala Glu Phe Tyr Arg Val Val Leu Ala Asp Pro Ser Ala
 50 55 60
 Ala Glu Phe Leu Thr Thr Glu Gln Val Glu Arg Gln Leu Gln Glu Ala
 65 70 75 80
 Leu Arg Arg Trp Leu Ile Asp Val Leu Ser Cys Arg Val Glu Gln Val
 85 90 95
 Glu Glu Gln Met Arg Ala Gln Gln Arg Ala Ala Asp Val His Ala Arg
 100 105 110
 Ile Gly Ile Ser Val Asp Leu Val Glu Met Gly Phe Arg Val Leu Lys
 115 120 125
 Lys Leu Leu Leu Pro Val Ile Thr Thr Ser Ala His Ser Pro Glu Val
 130 135 140
 Lys Leu His Ile Tyr His Tyr Ala Ile Asn Ser Ile Asp Leu Ala Met
 145 150 155 160
 Glu Val Met Ser Arg Ala Tyr Val Phe Ser Glu Asn Asn Ala Ala Lys
 165 170 175
 Glu Asp Glu Asn Tyr Arg Ile Phe Ser Leu Met Glu Asn Ala Glu Glu
 180 185 190
 Glu Lys Glu Arg Gln Thr Ala Ala Leu Leu Ser Trp Glu Met Val Leu
 195 200 205
 Leu Tyr Lys Ile Thr Leu Asn Ser Ser Ile Gly Asn Ser Leu Pro Leu
 210 215 220
 Gly Gln Ser Glu Phe Gly Leu Trp Phe Ser His Lys Gly Arg His Tyr
 225 230 235 240
 Phe Ser Gly Ile Ala Glu Ala Gly His Ile Ser Arg Leu Ile Gln Glu
 245 250 255
 Phe Asp Asp Leu Phe Asn Glu Val Arg Leu Ser Gly Gln Gly Leu Ser
 260 265 270
 Asp Lys Ala Gln Arg Asp Lys Phe Leu Gln Arg Met Arg Asn Thr Leu
 275 280 285
 Ser Gln Ile Ile Thr Leu Leu Arg Glu Leu Phe Asp Glu Val Ser Arg
 290 295 300
 His Glu Val Gly Val Asp Val Leu Thr Arg Leu Leu Asn Arg Arg Phe
 305 310 315 320
 Leu Pro Thr Ile Phe Lys Arg Glu Ile Leu His Ala Thr Arg Ala Gly
 325 330 335
 Thr Lys Leu Ser Thr Leu Leu Ile Asp Val Asp Lys Phe Lys Gln Ile
 340 345 350
 Asn Asp Thr Trp Gly His Asn Thr Gly Asp Glu Ile Leu Arg Lys Val
 355 360 365
 Ser Gly Ala Phe Tyr Asp Asn Val Arg Thr Cys Asp Tyr Val Phe Arg
 370 375 380
 Tyr Gly Gly Asp Glu Phe Leu Ile Val Leu Thr Glu Ile Ser Glu Val
 385 390 395 400
 Asp Ala Leu Arg Ile Ala Glu Arg Ile Arg Arg Arg Val Glu Lys Ile
 405 410 415
 Lys Val Asn Ser Pro Thr Gly Asp Ile Ile Pro Leu Ser Leu Ser Ile
 420 425 430
 Gly Val Ala Met Phe Asn Gly His Pro Asp Tyr Glu Arg Leu Ile Gln
 435 440 445
 Ala Ala Asp Glu Ala Leu Tyr Gly Val Lys Arg Arg Gly Arg Asn Cys
 450 455 460
 Val Glu Leu Trp Lys Gly Ala
 465 470

<210> 7137

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7137

Arg Glu Arg Val Val Ile Val Leu Val Asp Ile Gly Lys Arg Ala Val
 1 5 10 15
 Thr Ile Thr Cys Thr Phe Gln Ala Glu His His Arg Leu Arg His Arg
 20 25 30
 Trp His Ser Thr Ile Ala Ile Leu Asn Arg Glu Lys Phe Met Lys Leu
 35 40 45
 Arg Leu Ser Ala Leu Ala Leu Gly Val Thr Met Leu Val Gly Cys Ala
 50 55 60
 Ser Ser Gly Glu Gln Thr Gly Arg Ser Asp Pro Leu Glu Gly Phe Asn
 65 70 75 80
 Arg Ser Met Tyr Ser Phe Asn Tyr Asn Val Leu Asp Pro Tyr Leu Val
 85 90 95
 Arg Pro Val Ala Val Ala Trp Arg Asp Tyr Val Pro Gln Pro Ala Arg
 100 105 110
 Asn Gly Leu Ser Asn Phe Thr Ser Asn Leu Glu Glu Pro Ala Val Met
 115 120 125
 Val Asn Tyr Phe Leu Gln Gly Asp Pro Tyr Gln Gly Met Val His Phe
 130 135 140
 Thr Arg Phe Phe Leu Asn Ser Leu Leu Gly Met Gly Gly Leu Ile Asp
 145 150 155 160
 Val Ala Gly Met Ala Asn Pro Lys Leu Gln Arg Glu Gln Pro His Arg
 165 170 175
 Phe Gly Ser Thr Leu Gly His Tyr Gly Val Gly Tyr Gly Pro Tyr Val
 180 185 190
 His Leu Pro Phe Tyr Gly Ser Phe Thr Val Arg Asp Asp Gly Gly Asp
 195 200 205
 Met Val Asp Thr Leu Tyr Pro Val Leu Ser Trp Leu Thr Trp Pro Leu
 210 215 220
 Ser Ile Gly Lys Trp Thr Val Glu Gly Ile Glu Thr Arg Ala Gln Leu
 225 230 235 240
 Leu Asp Ser Asp Gly Leu Leu Arg Gln Ser Ser Asp Pro Tyr Ile Met
 245 250 255
 Val Arg Glu Ala Tyr Phe Gln Asn His Asp Phe Ile Ala Asn Gly Gly
 260 265 270
 Lys Leu Lys Pro Glu Asp Asn Pro Asn Ala Lys Ala Ile Glu Asn Glu
 275 280 285
 Leu Lys Asp Ile Asp Ser Glu
 290 295

<210> 7138

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7138

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125

Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7139

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7139

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Val Lys Val Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Ser Tyr Ser Ser His Thr Gln Pro
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 7140

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7140

Pro Gly Arg Asn Pro Ser Cys Ile Pro Ser Trp Ser Gly Leu Glu Gln
 1 5 10 15
 Arg Ala Arg Leu Ala Ala Glu Phe Met Tyr Gly Leu Leu Ser Arg Gln
 20 25 30
 Gly Val Ile Asp Thr Ala Phe Ala Ser Leu Thr Thr Lys Pro His Leu
 35 40 45
 Thr Gln Asp Gln Gln Ala Leu Ile Gln Asp Ile Leu Thr Asp Ile Arg
 50 55 60
 Ile Tyr Gly Gln Pro His Phe Asp Val Thr Ala Phe Tyr Asn Gly Met
 65 70 75 80
 Leu Ser Tyr Leu Asn Arg Gly Arg Phe Arg Ala Thr Gly Glu Leu Thr
 85 90 95
 Thr Gln Asp Arg Leu Arg Glu Val Phe Arg Ile Ser Ser Ile Asp Glu
 100 105 110
 Phe Arg Ala Leu Leu Ala Asn Glu Pro Met Leu Val Leu Pro Glu Cys
 115 120 125
 Pro Asp Asn Lys Leu Thr Leu Glu Ala Phe Phe Trp Arg Asp Glu Tyr
 130 135 140
 Phe Asn Ser Gln Gly Pro Asp Ala Leu Leu Ser Tyr Leu Phe Ser Pro
 145 150 155 160
 Glu Gln Ile Gln Arg Tyr Leu Asn Val Arg Ala Glu Phe Glu Asp Lys
 165 170 175
 Gly Lys Thr Val Glu Lys Leu Ser Ala Gly Gln Arg Gly Thr Phe Tyr
 180 185 190
 Val Cys Leu Lys Leu Ala Ala Asp Ala Phe Gly Ser Pro Phe Val Phe
 195 200 205
 Asp Gln Pro Glu Asp Asp Leu Asp Asn Glu Phe Ile Met His Ser Leu
 210 215 220
 Val Pro Leu Phe Arg Lys Ile Lys Gln Tyr Arg Gln Val Ile Ile Val
 225 230 235 240
 Thr His Asn Ala Asn Leu Val Val Asn Cys Asp Ala Glu Gln Val Ile

				245					250					255			
Ile	Ala	Ala	Asn	Asn	Asp	Glu	Val	Ile	Ser	Tyr	Arg	Ser	Gly	Ala	Leu		
			260					265					270				
Glu	Tyr	Gly	Asp	His	Gly	Ala	Pro	Asn	Ser	Met	Cys	Lys	Ala	Ile	Cys		
		275					280					285					
Asp	Val	Leu	Glu	Gly	Gly	Arg	Gln	Ala	Phe	Glu	Ala	Arg	Glu	Gln	Lys		
	290					295					300						
Tyr	Gly	Met	Val	Trp	Leu	Asn	Ala	Ile									
305					310												

<210> 7141

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7141

Gly	Ala	Pro	Val	Ala	Ser	Val	Ser	Ile	Ser	Cys	Pro	Ser	Cys	Ser	Ala		
1				5				10						15			
Thr	Asp	Gly	Val	Val	Arg	Asn	Gly	Lys	Ser	Thr	Ala	Gly	His	Gln	Arg		
		20					25						30				
Tyr	Leu	Cys	Ser	His	Cys	Arg	Lys	Thr	Trp	Gln	Leu	Gln	Phe	Thr	Tyr		
	35						40					45					
Thr	Ala	Ser	Gln	Pro	Gly	Thr	His	Gln	Lys	Ile	Ile	Asp	Met	Ala	Met		
	50					55					60						
Asn	Gly	Val	Gly	Cys	Arg	Ala	Thr	Ala	Arg	Ile	Met	Gly	Val	Gly	Leu		
65				70					75						80		
Asn	Thr	Ile	Phe	Arg	His	Leu	Lys	Asn	Ser	Gly	Arg	Ser	Arg				
				85					90					95			

<210> 7142

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7142

Tyr	Gly	His	Glu	Trp	Arg	Trp	Met	Pro	Gly	Asn	Arg	Pro	His	Tyr	Gly		
1				5					10					15			
Arg	Trp	Pro	Gln	His	Asp	Phe	Pro	Pro	Phe	Lys	Lys	Leu	Arg	Pro	Gln		
		20					25						30				
Ser	Val	Thr	Ser	Arg	Ile	Gln	Pro	Gly	Ser	Asp	Val	Ile	Val	Cys	Ala		
	35						40					45					
Glu	Met	Asp	Glu	Gln	Trp	Gly	Tyr	Val	Gly	Ala	Lys	Ser	Arg	Gln	Arg		
	50					55				60							
Trp	Leu	Phe	Tyr	Ala	Tyr	Asp	Arg	Leu	Arg	Lys	Thr	Val	Val	Ala	His		
65				70					75						80		
Val	Phe	Gly	Glu	Arg	Thr	Met	Ala	Thr	Leu	Gly	Arg	Leu	Met	Arg	Leu		
				85					90					95			
Leu	Ser	Pro	Phe	Asp	Val	Val	Ile	Trp	Met	Thr	Asp	Gly	Trp	Pro	Leu		
		100						105					110				
Tyr	Glu	Ser	Arg	Leu	Lys	Gly	Lys	Leu	His	Val	Ile	Ser	Lys	Arg	Tyr		
	115					120						125					
Thr	Gln	Arg	Ile	Glu	Arg	His	Asn	Leu	Asn	Leu	Arg	Gln	His	Leu	Ala		
	130					135						140					
Arg	Leu	Gly	Arg	Thr	Ser	Leu	Ser	Phe	Ser	Lys	Ser	Val	Glu	Leu	His		
145					150					155					160		
Asp	Lys	Val	Ile	Gly	His	Tyr	Leu	Asn	Ile	Lys	His	Tyr	Gln				
				165					170					175			

<210> 7143

<211> 78

<212> PRT

<213> *Enterobacter cloacae*

<400> 7143

Cys	Cys	Gln	Leu	Thr	Asp	Leu	Val	Tyr	Asp	Gly	Val	Phe	Glu	Val	Leu
1				5					10				15		
Gln	Trp	Leu	Leu	Phe	Leu	Ser	Ala	Val	Pro	Pro	Val	Gln	Leu	Leu	Thr
		20						25				30			
Gly	Trp	Cys	Val	Thr	Ala	Lys	Ala	Leu	Pro	Asp	Ile	Ser	Ala	Ile	Ser
		35					40					45			
Ala	Leu	Thr	Ala	Val	Lys	His	Gly	Asn	Cys	Ser	Ser	Leu	Thr	Pro	Leu
	50					55					60				
Leu	Asn	Pro	Val	Arg	Thr	Arg	Lys	Ser	Leu	Ile	Trp	Pro			
65					70					75					

<210> 7144

<211> 95

<212> PRT

<213> *Enterobacter cloacae*

<400> 7144

Gly	Ala	Pro	Val	Ala	Ser	Val	Ser	Ile	Ser	Cys	Pro	Ser	Cys	Ser	Ala
1				5					10				15		
Thr	Asp	Gly	Val	Val	Arg	Asn	Gly	Lys	Ser	Thr	Ala	Gly	His	Gln	Arg
		20						25				30			
Tyr	Leu	Cys	Ser	His	Cys	Arg	Lys	Thr	Trp	Gln	Leu	Gln	Phe	Thr	Tyr
		35					40					45			
Thr	Ala	Ser	Gln	Pro	Gly	Thr	His	Gln	Lys	Ile	Ile	Asp	Met	Ala	Met
	50					55					60				
Asn	Gly	Val	Gly	Cys	Arg	Ala	Thr	Ala	Arg	Ile	Met	Gly	Val	Gly	Leu
65					70					75					80
Asn	Thr	Ile	Phe	Arg	His	Leu	Lys	Asn	Ser	Gly	Arg	Ser	Arg		
				85					90					95	

<210> 7145

<211> 243

<212> PRT

<213> *Enterobacter cloacae*

<400> 7145

Cys	Thr	His	His	Leu	Asn	Thr	Phe	Asp	Gly	Gly	Val	Ser	Arg	Leu	His
1				5					10				15		
Gly	Phe	Lys	Ser	Gln	Arg	Gly	Ala	Asp	Tyr	Pro	Phe	Gln	Phe	Ala	Met
		20						25				30			
Ile	Ala	Phe	Asn	His	Val	Val	Pro	Val	Leu	Asn	Leu	Ser	Val	Phe	Asn
		35					40					45			
Val	Arg	Arg	Ala	Pro	Ala	Phe	Ala	Phe	Glu	Gln	Ser	Lys	Arg	Ala	Thr
	50					55					60				
Ile	Gly	Gly	Arg	Phe	Ile	Arg	Val	Asp	Glu	Ser	Arg	Asp	Leu	Pro	Leu
65					70					75					80
Leu	His	Val	Val	Glu	Asp	Phe	Thr	Gln	Lys	Pro	Val	Cys	Ser	Phe	Ala
				85					90					95	
Val	Thr	Thr	Gly	Gly	Glu	Ile	Lys	Ile	Asp	Ser	Ala	Ala	Pro	Ala	Val
			100					105					110		
Asp	Gly	Pro	Val	Gln	Ile	Arg	Pro	Ala	Ala	Ile	Asp	Leu	His	Val	Gly
		115					120					125			
Phe	Ile	His	Val	Pro	Arg	Ala	Lys	Ile	Gly	Arg	Val	Thr	Pro	Val	Pro
	130					135					140				
Ala	Gln	Pro	Phe	Phe	His	Phe	Arg	Arg	Ile	Thr	Leu	Asn	Pro	Ala	Val
145					150					155					160
Asn	Arg	Gly	Val	Ile	Asp	Ile	His	Ser	Ala	Phe	Ser	Gln	His	Leu	Leu
				165					170					175	

Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
 180 185 190
 Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
 195 200 205
 Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
 210 215 220
 Cys Asn Ser Ala Asn Arg Asn Asp Lys Asn Glu Pro Pro Gly Cys Asp
 225 230 235 240
 Gly Leu

<210> 7146

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7146

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Val Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Ser Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7147

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7147

Ala Ile Asn Pro Met Arg Ile Leu Leu Val Glu Asp Asp Pro Met Val
 1 5 10 15
 Gly Glu Val Val Thr Ser Ser Leu Lys Asp Asn Ala Trp Ala Val Asp
 20 25 30
 Trp Val Lys Ser Gly Asn Asp Ala Cys Val Gly Phe Ser Thr Trp Gln
 35 40 45
 Tyr Asp Val Ile Leu Leu Asp Leu Gly Leu Pro Gly Lys Asp Gly Leu
 50 55 60
 Thr Val Leu Ala Glu Ile Arg Gln Lys Ala Leu Pro Val Pro Val Leu
 65 70 75 80
 Ile Leu Thr Ala Arg Asp Ala Leu Glu Asp Arg Leu Lys Gly Leu Asp
 85 90 95
 Gly Gly Ala Asp Asp Tyr Ile Leu Lys Pro Phe Glu Met Ser Glu Leu
 100 105 110
 Leu Ala Arg Ile Arg Ala Val Ile Arg Arg Asn Thr Gly Asn Gly Asn
 115 120 125
 Pro Val Leu Ser Asn Gly Val Leu Thr Leu Asp Pro Val Thr His Glu
 130 135 140
 Ala Ser Ile Ser Glu Thr Gln Gln Lys Phe Leu Leu Ser Asn Arg Glu
 145 150 155 160
 Tyr Ala Leu Leu Glu Ala Leu Met Leu Arg Pro Gly Gly Ile Leu Ser
 165 170 175
 Arg Ser Ala Leu Glu Asp Arg Ile Tyr Gly Trp Gly Asp Glu Val Glu

			180					185				190			
Ser	Asn	Ala	Ile	Glu	Phe	Leu	Ile	His	Ala	Leu	Arg	Lys	Lys	Leu	Gly
		195					200					205			
Arg	Asp	Ala	Ile	Lys	Asn	Val	Arg	Gly	Val	Gly	Trp	Leu	Val	Ser	Lys
	210					215					220				
Asn	Gly														
225															

<210> 7148

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 7148

Thr	Met	Phe	Gly	Leu	Asp	Ala	Phe	His	Leu	Ala	Arg	Val	Gln	Phe	Ala
1				5					10					15	
Phe	Thr	Val	Ser	Phe	His	Ile	Ile	Phe	Pro	Ala	Ile	Thr	Ile	Gly	Leu
		20						25					30		
Ala	Ser	Phe	Leu	Ala	Val	Leu	Glu	Gly	Leu	Trp	Leu	Lys	Thr	Arg	Asn
		35					40					45			
Asp	Thr	Tyr	Lys	Glu	Leu	Tyr	His	Phe	Trp	Ser	Lys	Ile	Phe	Ala	Val
	50					55					60				
Asn	Phe	Gly	Met	Gly	Val	Ser	Gly	Leu	Val	Met	Ala	Tyr	Gln	Phe	
65				70					75					80	
Gly	Thr	Asn	Trp	Ser	Gly	Phe	Ser	Gln	Phe	Ala	Gly	Ser	Ile	Thr	Gly
			85					90					95		
Pro	Leu	Leu	Thr	Tyr	Glu	Val	Leu	Thr	Ala	Phe	Phe	Leu	Glu	Ala	Gly
			100					105					110		
Phe	Leu	Gly	Val	Met	Leu	Phe	Gly	Trp	Asn	Arg	Val	Gly	Pro	Gly	Leu
		115					120					125			
His	Phe	Phe	Ala	Thr	Cys	Met	Val	Ala	Leu	Gly	Thr	Leu	Phe	Ser	Thr
	130					135					140				
Phe	Trp	Ile	Leu	Ser	Ser	Asn	Ser	Trp	Met	Gln	Thr	Pro	Gln	Gly	Tyr
145					150					155				160	
Ala	Ile	Glu	Asn	Gly	Val	Val	Ile	Pro	Val	Asp	Trp	Leu	Lys	Ile	Ile
			165					170						175	
Phe	Asn	Pro	Ser	Phe	Pro	Phe	Arg	Leu	Leu	His	Met	Ser	Thr	Ala	Ala
		180						185					190		
Phe	Leu	Ala	Ser	Ala	Phe	Phe	Val	Gly	Ala	Ser	Ala	Ala	Trp	His	Leu
		195					200					205			
Leu	Lys	Gly	Asn	Asp	Thr	Pro	Ala	Ile	Arg	Lys	Met	Phe	Ser	Met	Ala
	210					215					220				
Leu	Trp	Met	Ala	Leu	Ile	Val	Ser	Pro	Ile	Gln	Ala	Val	Ile	Gly	Asp
225					230					235				240	
Ala	His	Gly	Leu	Asn	Thr	Leu	Glu	His	Gln	Pro	Ala	Lys	Ile	Ala	Ala
			245					250						255	
Ile	Glu	Gly	His	Trp	Glu	Asn	Lys	Pro	Gly	Glu	Ala	Thr	Pro	Leu	Val
		260						265					270		
Leu	Phe	Gly	Leu	Pro	Asp	Met	Asn	Ala	Glu	Glu	Thr	Lys	Tyr	Lys	Ile
		275				280						285			
Glu	Val	Pro	Tyr	Leu	Gly	Ser	Ile	Ile	Leu	Thr	His	Ser	Leu	Asp	Lys
	290					295					300				
Gln	Val	Pro	Ala	Leu	Lys	Ser	Phe	Pro	Lys	Glu	Asp	Arg	Pro	Asn	Ser
305					310					315				320	
Thr	Ile	Ile	Phe	Trp	Ser	Phe	Arg	Val	Met	Ala	Gly	Leu	Gly	Met	Leu
			325					330					335		
Met	Ile	Leu	Leu	Gly	Val	Val	Ser	Val	Trp	Leu	Arg	Trp	Arg	Lys	Arg
		340						345					350		
Leu	Tyr	Thr	Ser	Lys	Pro	Phe	Leu	Tyr	Phe	Ser	Leu	Phe	Met	Gly	Pro
	355						360					365			
Ser	Gly	Leu	Ile	Ala	Leu	Leu	Ala	Gly	Trp	Phe	Thr	Thr	Glu	Ile	Gly

370	375	380
Arg Gln Pro Trp Val Val Tyr Gly Val Gln Arg Thr Lys Asp Ala Val		
385	390	395
Ser Ala His Gly Asp Leu His Met Ser Ile Ser Leu Leu Ala Phe Leu		
	405	410
Leu Val Tyr Thr Ser Val Phe Gly Val Gly Tyr Ile Tyr Leu Val Arg		
	420	425
Leu Ile Lys Lys Gly Pro Val His Ala Glu Glu His Gln Glu Val Thr		
	435	440
Asp Gly Thr Pro Ala Arg Pro Leu Ser Ala Val Asn Glu Gly Leu Ala		
	450	455
Thr Arg Gly Arg Asp Lys		460
465	470	

<210> 7149

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7149

Thr Tyr His Pro Leu Leu Met Glu Leu His Met Asn Pro Phe Lys		
1	5	10
Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr		
	20	25
Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu		
	35	40
Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg		
	50	55
Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro		
65	70	75
Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn		
	85	90
Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr		
	100	105
Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg		
	115	120
Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg		
	130	135
Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu		
145	150	155
Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile		
	165	170
Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg		
	180	185
Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala		
	195	200
Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala		
	210	215
Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser		
225	230	235
Arg Val Phe Glu Met		
	245	

<210> 7150

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7150

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser		
1	5	10
		15

Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7151

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7151

Lys Cys Gln Gly Ser Arg Met Ala Gly Phe Lys Lys Arg Met Lys Thr
 1 5 10 15
 Ser Val Gln Leu Arg Leu Ser Leu Ala Leu Gly Ile Ala Ile Leu Leu
 20 25 30
 Thr Ala Val Ile Ser Gly Gly Ile Thr Phe Tyr Leu Ala Leu Asp Glu
 35 40 45
 Ala Arg Glu Leu Gln Asp Asp Thr Leu Lys Gln Ile Ala Tyr Val Thr
 50 55 60
 Lys Ser Pro Gly His Asn Ala Leu Pro Glu Ile Lys Gly Gln Lys Arg
 65 70 75 80
 Ala Asp Glu Asp Ser Asp Gly Lys Ile Leu Val Glu Tyr Leu Thr Val
 85 90 95
 Ser Gly Thr Gln Asn Asp Asp Thr Gly Ile Thr Phe His Leu Pro Ala
 100 105 110
 Pro Val Arg Glu Gly Phe Gln Asn Ala Thr Ile Thr Gly Val Gln Tyr
 115 120 125
 Arg Val Leu Val His Arg Leu Thr Pro Glu Gln Phe Val Ile Val Gly
 130 135 140
 Gln Gln Thr Glu Val Arg Asp Gly Ile Ala Phe Ala Ser Ala Leu Arg
 145 150 155 160
 Thr Leu Ile Pro Phe Ile Leu Leu Leu Pro Val Leu Leu Leu Val Thr
 165 170 175
 Thr Asp Leu Ile Lys Lys Ser Phe Arg Pro Val Leu Asn Leu Ala Ala
 180 185 190
 Gly Val Tyr Arg Arg Asp Glu Arg Asp Leu Thr Pro Leu Arg Asp Asp
 195 200 205
 Asn Ile Pro Asp Glu Ile Arg Pro Phe Val Glu Ser Ile Asn Arg Leu
 210 215 220
 Leu His Lys Val Asn Asn Thr Ile Gln Ala Gln Lys Arg Phe Ile Ala
 225 230 235 240
 Asp Ala Ala His Glu Leu Arg Thr Pro Leu Thr Ala Leu Ser Leu Gln
 245 250 255
 Ala Glu Arg Leu Ser Gly Ser Asp Met Ser Ala Glu Ala Arg Glu Arg
 260 265 270
 Leu Ala Ala Leu Arg Leu Gly Leu Thr Arg Glu Lys Asn Leu Leu Glu
 275 280 285
 Gln Leu Leu Ser Leu Ala Arg Glu Gln Gln Pro Leu Gln Thr Gln Gly
 290 295 300
 Thr Glu Ala Val Ser Leu Asn Glu Val Phe Arg Gln Val Ile Glu Thr
 305 310 315 320
 Leu Leu Pro Leu Ala Leu Glu Lys Gly Ile Asp Ile Gly Val Val Glu
 325 330 335

Thr	Pro	Tyr	Gln	Ala	Glu	Ser	Gln	Val	Ile	Thr	Glu	Lys	Asn	Thr	Leu
			340					345					350		
Tyr	Thr	Ala	Leu	Lys	Asn	Leu	Val	Glu	Asn	Ala	Ile	His	Tyr	Ile	Pro
		355					360					365			
Glu	Asn	Gly	Gln	Ile	Asp	Leu	Arg	Leu	Gln	Phe	Ile	Asp	Asn	Ser	Ala
	370					375					380				
Val	Ile	Asp	Val	Glu	Asp	Asn	Gly	Pro	Gly	Ile	Ala	Ala	Glu	Gln	Arg
385					390					395					400
Glu	Arg	Val	Phe	Asp	Ala	Phe	Tyr	Arg	Pro	Ala	Gly	Thr	Glu	Lys	Pro
			405					410						415	
Gly	Ser	Gly	Leu	Gly	Leu	Ser	Ile	Val	Lys	Ala	Cys	Val	His	Arg	Leu
			420					425					430		
Gly	Gly	Thr	Ile	Ile	Leu	Ala	Pro	Ser	Ser	His	Phe	Pro	Ser	Gly	Leu
		435					440					445			
Arg	Ala	Arg	Ile	Ile	Leu	Pro	Val	Glu	Ser	His	Ser	Gly			
	450					455						460			

<210> 7152

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7152

Arg	Tyr	Arg	Gly	Cys	Pro	Val	Pro	Pro	Gly	Ser	Leu	Cys	Ile	Arg	Ala
1				5					10					15	
Arg	Asn	Ser	Met	Lys	Asp	Glu	Ile	Ala	Arg	Gln	Ile	Ala	Gly	Leu	Ile
			20					25					30		
Glu	Leu	Asn	Lys	Phe	Asn	Gly	Tyr	Thr	Leu	Val	Ser	Gly	Glu	Asp	Trp
		35					40					45			
Gln	Lys	Pro	Thr	Val	Thr	Glu	Ile	Leu	Leu	Val	Arg	Gly	Phe	Ile	Pro
	50					55					60				
Leu	Thr	Asp	Asn	Gln	Leu	Ala	Asn	Arg	Leu	Asp	Val	Asp	Glu	Arg	Thr
65				70					75						80
Ile	Arg	Lys	Trp	Lys	Ser	Gly	Glu	Thr	Ser	Met	Val	Tyr	Thr	Thr	Trp
				85					90					95	
Cys	Cys	Leu	Cys	Trp	Leu	Ala	Gly	Leu	Gly	Met	Pro	Leu	Asp	Asn	Ile
			100					105					110		
Ile	Ser	Gly													
		115													

<210> 7153

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7153

Gly	Phe	Gly	Asn	Thr	Trp	Glu	Arg	Gln	Ile	Met	Gly	Ile	Asp	Leu	Ser
1			5						10					15	
Ile	Ile	Trp	Phe	Val	Ile	Ile	Val	Phe	Ala	Thr	Leu	Met	Tyr	Ile	Val
			20					25					30		
Met	Asp	Gly	Phe	Asp	Leu	Gly	Ile	Gly	Ile	Leu	Phe	Pro	Phe	His	Lys
		35					40					45			
His	Asp	Val	Asp	Arg	Asp	Thr	Met	Met	Asn	Thr	Val	Ala	Pro	Val	Trp
	50					55					60				
Asp	Gly	Asn	Glu	Thr	Trp	Met	Val	Leu	Gly	Gly	Ala	Ala	Leu	Tyr	Gly
65				70					75						80
Ala	Phe	Pro	Leu	Ala	Tyr	Ala	Val	Ile	Ile	Asp	Ala	Leu	Ser	Ile	Pro
				85				90						95	
Leu	Thr	Ala	Met	Leu	Leu	Gly	Leu	Ile	Phe	Arg	Gly	Val	Ala	Phe	Glu
			100				105						110		
Phe	Arg	Phe	Lys	Ala	Ile	Pro	Glu	His	Arg	Pro	Ile	Trp	Asp	Lys	Ala

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<210> 7154
<211> 167
<212> PRT
<213> Enterobacter cloacae
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<210> 7155
<211> 127
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<212> PRT

<213> Enterobacter cloacae

<400> 7155

Glu	Gln	Met	Arg	Gln	Asn	Ile	Gln	Leu	Gln	Pro	Glu	Tyr	His	Ser	Ala	
1				5					10					15		
Phe	Leu	Asp	Ser	Ala	Leu	Ser	Glu	Tyr	Phe	Arg	His	Ala	Gly	Asp	Arg	
			20					25					30			
Phe	Ala	Glu	Glu	Ser	Ala	Ile	Phe	Ser	Thr	Ala	Val	Arg	Cys	Val	Leu	
		35					40					45				
Ala	Ser	Glu	Gly	His	Leu	Thr	Asn	Lys	Ser	Ile	Ile	Leu	Trp	Leu	Ile	
	50					55					60					
Gln	Thr	Leu	Glu	Ser	Thr	Asp	Asp	Val	Val	Lys	Ala	Asp	Val	Ile	Arg	
65					70					75					80	
Lys	Thr	Leu	Glu	Ile	Val	Val	Gly	Tyr	Thr	Met	Asp	Asp	Leu	Tyr	Arg	
				85				90						95		
Leu	Thr	Leu	Pro	Ile	Ser	Ser	Asp	Ser	Val	Ser	Ser	Ser	Ile	Leu	Thr	
			100					105					110			
Asn	Gly	Leu	Thr	Ile	Thr	Cys	Pro	Leu	Ser	Pro	Asn	Ala	Leu			
		115					120					125				

<210> 7156

<211> 728

<212> PRT

<213> Enterobacter cloacae

<400> 7156

Thr	Leu	Leu	His	Phe	Leu	Thr	Gly	Leu	Leu	Leu	Met	Lys	Lys	Ile	Ala	
1				5				10						15		
Ser	Val	Cys	Pro	Tyr	Cys	Gly	Ala	Gly	Cys	Lys	Leu	Asn	Leu	Val	Val	
			20					25					30			
Lys	Asn	Asn	Arg	Ile	Ile	Arg	Ala	Glu	Ala	Ala	Asp	Gly	Val	Thr	Asn	
		35					40					45				
Gln	Gly	Thr	Leu	Cys	Leu	Lys	Gly	Phe	Tyr	Gly	Trp	Asp	Phe	Leu	Asn	
	50					55					60					
Asp	Thr	Arg	Leu	Leu	Thr	Pro	Arg	Leu	Thr	Gln	Pro	Met	Ile	Arg	Tyr	
65					70					75					80	
Ser	Lys	Gly	Glu	Ala	Phe	Thr	Pro	Val	Thr	Trp	Glu	Glu	Ala	Ile	Arg	
				85				90						95		
Tyr	Thr	Ala	Tyr	Arg	Leu	Lys	Ser	Ile	Lys	Glu	Gln	Tyr	Gly	Pro	Arg	
			100				105						110			
Ser	Ile	Met	Thr	Thr	Gly	Ser	Ser	Arg	Gly	Thr	Gly	Asn	Glu	Thr	Asn	
	115						120					125				
Tyr	Val	Met	Gln	Lys	Phe	Ala	Arg	Ala	Val	Leu	Asn	Thr	Asn	Asn	Val	
	130					135					140					
Asp	Cys	Cys	Ala	Arg	Val	Cys	His	Gly	Pro	Ser	Val	Ala	Gly	Leu	Gln	
145					150					155					160	
Glu	Thr	Leu	Gly	Asn	Gly	Ala	Met	Ser	Asn	Ser	Ile	Asn	Asp	Ile	Glu	
				165					170					175		
Asn	Ser	Lys	Cys	Leu	Leu	Val	Phe	Gly	Tyr	Asn	Cys	Ala	Asp	Ser	His	
		180						185					190			
Pro	Ile	Val	Ala	Arg	Arg	Val	Leu	Lys	Ala	Arg	Glu	Asn	Gly	Ala	Lys	
		195					200						205			
Ile	Ile	Val	Cys	Asp	Pro	Arg	His	Ile	Glu	Thr	Ala	Arg	Ile	Ala	Asp	
	210					215					220					
Leu	His	Leu	Gln	Leu	Lys	Asn	Gly	Ser	Asn	Met	Ala	Leu	Val	Asn	Ala	
225					230					235					240	
Phe	Gly	Tyr	Val	Leu	Leu	Glu	Glu	Glu	Leu	Tyr	Asp	Lys	Asn	Tyr	Val	
				245					250					255		
Ala	Arg	Phe	Thr	Glu	Gly	Leu	Glu	Ala	Tyr	Arg	Leu	Thr	Val	Lys	Asp	
			260					265					270			

Tyr Ala Pro Glu Gln Val Glu His Leu Thr Gly Ile Pro Ala Arg Asp
 275 280 285
 Val Arg Gln Ala Met Arg Met Phe Ala Ala Pro Ser Ala Thr Val
 290 295 300
 Met Trp Gly Met Gly Val Thr Gln Phe Gly Gln Ala Val Asp Val Val
 305 310 315 320
 Lys Gly Leu Ser Ser Leu Ala Leu Leu Thr Gly Asn Leu Gly Arg Pro
 325 330 335
 Ala Val Gly Val Gly Pro Val Arg Gly Gln Asn Asn Val Gln Gly Ala
 340 345 350
 Cys Asp Met Gly Val Leu Pro Asn Met Phe Pro Gly Tyr Gln Asp Val
 355 360 365
 Thr Asp Pro Ala Val Arg Leu Lys Phe Ala Asp Ala Trp Lys Ile Asn
 370 375 380
 Val Asn Arg Met Asp Asp Arg Val Gly Thr Arg Ile Thr Glu Val Pro
 385 390 395 400
 His Leu Ala Leu Glu Gly Lys Ile Lys Ala Tyr Tyr Ile Met Gly Glu
 405 410 415
 Asp Pro Leu Gln Thr Glu Ala Asp Leu Gly Leu Val Arg Arg Gly Phe
 420 425 430
 Glu Ala Leu Asp Phe Val Val Val Gln Asp Ile Phe Met Thr Lys Thr
 435 440 445
 Ala Glu Leu Ala Asp Val Leu Leu Pro Ala Thr Ser Trp Gly Glu His
 450 455 460
 Ala Gly Val Phe Thr Cys Ala Asp Arg Gly Phe Gln Arg Phe Gly Lys
 465 470 475 480
 Ala Ile Glu Pro Ser Gly Asn Val Arg Arg Asp Trp Glu Ile Ile Ser
 485 490 495
 Leu Leu Ala Thr Glu Met Gly Tyr Pro Met His Tyr Glu Asp Asn Gln
 500 505 510
 Gln Ile Trp Asp Glu Met Arg Glu Leu Cys Pro Leu Phe Tyr Gly Val
 515 520 525
 Thr Tyr Glu Lys Met Gly Glu Met Gly His Val Gln Trp Pro Cys Pro
 530 535 540
 Thr Leu Asp His Pro Gly Thr Pro Tyr Leu Tyr Lys Asp Asn Gln Phe
 545 550 555 560
 Asp Thr Pro Thr Gly Lys Gly Gln Leu Phe Ala Ala Pro Trp Arg Ala
 565 570 575
 Pro Ala Glu Thr Pro Asp Ala Asp Tyr Pro Leu Val Leu Cys Thr Val
 580 585 590
 Arg Glu Val Gly His Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala
 595 600 605
 Ala Leu Gln Ser Leu Ala Asp Glu Pro Gly Arg Val Gln Ile Asn Pro
 610 615 620
 Ala Asp Ala Asp Glu Arg Gly Ile Ala Glu Gly Gln Leu Val Trp Val
 625 630 635 640
 Arg Ser Arg Arg Gly Lys Val Ile Thr Arg Ala Ser Ile Ser Glu Arg
 645 650 655
 Ile Asn Ala Gly Ala Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala
 660 665 670
 Cys Asn Glu Leu Thr Gln Asp Asn Leu Asp Pro Ile Ser Arg Thr Pro
 675 680 685
 Glu Thr Lys Tyr Cys Ala Val Gln Leu Glu Ala Ile Glu Asp Gln Arg
 690 695 700
 Trp Ala Glu Asp Phe Ala Ala Ser Ala Tyr Gln Thr Met Lys Thr Arg
 705 710 715 720
 Leu Ile Ala Ala Val Asn Val
 725

<210> 7157

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7157

Gly	Lys	Lys	Met	Arg	Phe	Ile	Thr	Thr	Thr	Gly	Leu	Val	Met	Ala	Leu
1				5					10					15	
Leu	Pro	Leu	Thr	Leu	Thr	Ser	Ala	Ser	Ala	Gly	Val	Ile	Ile	Gly	Gly
			20					25					30		
Thr	Arg	Val	Ile	Phe	Asp	Gly	Ala	Lys	Lys	Glu	Ala	Ser	Ile	Asn	Ile
		35					40					45			
Thr	Asn	Pro	Asp	Asn	Gly	Pro	Tyr	Leu	Ile	Gln	Ser	Trp	Ile	Asp	Val
	50					55					60				
Gln	Asp	Glu	Gln	Ser	Gly	Lys	Ala	Pro	Phe	Ile	Ile	Thr	Pro	Pro	Leu
65					70					75					80
Tyr	Arg	Leu	Asp	Gly	Gly	Gln	Lys	Asn	Leu	Glu	Arg	Ile	Val	Met	Thr
				85					90					95	
Gly	Ser	Leu	Pro	Gln	Gly	Gln	Glu	Ser	Leu	Phe	Trp	Leu	Asn	Ile	Lys
			100					105					110		
Ala	Ile	Pro	Ser	Ala	Ser	Lys	Gln	Met	Asn	Ser	Leu	Gln	Ile	Ala	Val
		115					120					125			
Lys	Thr	Arg	Ile	Lys	Leu	Ile	Tyr	Arg	Pro	Glu	Ala	Leu	Arg	Ala	Ser
	130					135					140				
Thr	Pro	Glu	Glu	Gln	Ala	Asn	Lys	Leu	Thr	Trp	Arg	Arg	Ala	Gly	Asn
145					150					155					160
Thr	Leu	Leu	Val	Asn	Asn	Pro	Thr	Pro	Tyr	Val	Ile	Asn	Phe	Asn	Glu
				165					170					175	
Ile	Thr	Leu	Gly	Asn	Lys	Lys	Leu	Asp	Asp	Val	Thr	Tyr	Val	Met	Pro
			180					185					190		
Ser	Gly	Thr	Ala	Arg	Phe	Pro	Leu	Pro	Asn	Gly	Thr	Ser	Gly	Asn	Thr
		195					200					205			
Leu	Thr	Phe	Lys	Val	Ile	Asn	Asp	Tyr	Gly	Ser	Pro	Gly	Glu	Leu	His
	210					215					220				
Arg	Ala	Ser	Leu												
225															

<210> 7158

<211> 857

<212> PRT

<213> Enterobacter cloacae

<400> 7158

Ser	Leu	Arg	Val	Asn	Gln	Val	Leu	Val	Met	Thr	Thr	Ala	Leu	Asn	Thr
1				5					10					15	
Met	Gln	Pro	Ala	Arg	Leu	Ala	Ile	Phe	Ile	Ala	Leu	Ala	Leu	Ala	Gly
			20					25					30		
Val	Ser	Pro	Thr	Leu	Tyr	Ala	Ser	Glu	Thr	Phe	Asn	Thr	Glu	Leu	Val
		35					40					45			
Glu	Leu	Asp	Asn	Pro	Gly	Met	Gly	Lys	Ala	Asp	Leu	Ser	Ala	Phe	Glu
	50					55					60				
Ser	Gly	Ser	Gln	Ala	Pro	Gly	Thr	Tyr	His	Val	Asp	Ile	Ile	Leu	Asp
65					70				75						80
Asp	Arg	Leu	Leu	Glu	Thr	Arg	Asp	Ile	Arg	Phe	Met	Ala	Val	Lys	Asp
				85					90					95	
Ala	Asn	Gly	Ser	Glu	Thr	Leu	Gln	Pro	Cys	Leu	Ser	Ile	Gly	Gln	Leu
			100					105					110		
Lys	Ala	Trp	Gly	Val	Lys	Thr	Ala	Leu	Phe	Pro	Gln	Leu	Asp	Ala	Gly
		115					120					125			
Glu	Gly	Glu	Cys	Ala	Asp	Leu	Arg	Ala	Ile	Pro	Gln	Ala	Ser	Ala	Asp
	130					135					140				
Phe	Gln	Phe	Gly	Ala	Gln	Arg	Leu	Ala	Ile	Ser	Ile	Pro	Gln	Ala	Ala
145					150				155						160

Ile	Asp	Leu	Pro	Ala	Arg	Gly	Tyr	Val	Pro	Pro	Asp	Met	Trp	Asp	Glu
				165					170					175	
Gly	Ile	Thr	Ala	Ala	Met	Leu	Asn	Tyr	Ser	Leu	Ser	Gly	Ala	Asn	Ser
			180					185					190		
Arg	Ala	Arg	Ser	Gly	Ala	Gly	Thr	Arg	Ser	Asp	Ser	Gln	Tyr	Ala	Asn
		195					200					205			
Leu	Arg	Pro	Gly	Ile	Asn	Val	Gly	Pro	Trp	Arg	Leu	Arg	Asn	Tyr	Thr
	210					215					220				
Thr	Trp	Ser	Arg	Asp	Ala	Ser	Gly	Leu	Asp	Lys	Trp	Asp	Asn	Val	Tyr
225				230					235					240	
Thr	Leu	Met	Gln	Arg	Ala	Ile	Ile	Pro	Leu	Gln	Ala	Gln	Leu	Thr	Leu
			245						250					255	
Gly	Asp	Ser	Ser	Ala	Pro	Ala	Asp	Val	Phe	Asp	Ser	Met	Pro	Phe	Arg
			260					265					270		
Gly	Val	Gln	Leu	Ala	Ser	Asp	Asp	Asp	Met	Leu	Pro	Asp	Ser	Leu	Lys
		275					280					285			
Gly	Tyr	Ala	Pro	Val	Val	Arg	Gly	Ile	Ala	Arg	Thr	Asn	Ala	Gln	Val
	290					295					300				
Val	Val	Arg	Gln	Asn	Gly	Tyr	Gln	Ile	Tyr	Gln	Ser	Tyr	Val	Ala	Pro
305				310					315						320
Gly	Ala	Phe	Glu	Ile	Ala	Asp	Met	Tyr	Pro	Thr	Gly	Gly	Ala	Gly	Asp
			325						330					335	
Leu	Asp	Val	Thr	Ile	Val	Glu	Ala	Asp	Gly	Ser	Glu	Gln	His	Phe	Thr
			340					345					350		
Leu	Pro	Tyr	Ala	Ser	Leu	Pro	Val	Leu	Gln	Arg	Glu	Gly	Arg	Leu	Lys
		355					360					365			
Tyr	Ala	Leu	Thr	Ala	Gly	Gln	Tyr	Arg	Ser	Tyr	Asn	Arg	Ser	Val	Glu
	370				375						380				
Lys	Thr	Pro	Phe	Gly	Gln	Leu	Thr	Gly	Ile	Tyr	Gly	Leu	Pro	His	Gly
385				390					395						400
Ile	Thr	Leu	Tyr	Gly	Gly	Val	Gln	Gly	Ala	Asp	Lys	Tyr	Gln	Ser	Ala
			405					410						415	
Ala	Leu	Gly	Met	Gly	Lys	Asn	Met	Gly	Asp	Leu	Gly	Ala	Val	Ser	Ala
			420					425					430		
Asp	Val	Thr	Leu	Gly	Trp	Ser	Thr	Pro	Glu	His	Thr	Ala	Lys	Thr	Asn
		435					440					445			
Gly	Gln	Ser	Trp	Arg	Ala	Arg	Tyr	Ser	Lys	Asn	Phe	Ile	Thr	Thr	Gly
	450					455					460				
Thr	Asn	Phe	Ser	Ile	Ala	Gly	Tyr	Arg	Tyr	Ser	Thr	Arg	Gly	Tyr	Tyr
465				470					475						480
Gly	Met	Gln	Asp	Val	Leu	Gly	Ser	Tyr	Gly	Asp	Ser	Ser	Ala	Leu	Gln
			485					490						495	
Asp	Arg	Arg	Arg	Asn	Arg	Ala	Glu	Leu	Thr	Met	Ser	Gln	Thr	Leu	Gly
			500				505						510		
Asp	Asn	Leu	Gly	Ala	Leu	Thr	Leu	Ser	Ala	Ala	Arg	Glu	Asp	Tyr	Trp
		515					520					525			
Asn	Asp	Gly	Lys	Ser	Met	Ala	Ser	Trp	Ser	Val	Gly	Tyr	Ser	Asn	Tyr
	530					535					540				
Trp	His	Asn	Ile	Ser	Tyr	Gly	Leu	Thr	Trp	Thr	Tyr	Ser	Lys	Asn	Val
545				550					555						560
Arg	Ser	Ala	Ser	Glu	Asn	Arg	Lys	Ser	Gln	Lys	Asn	Ala	Asp	His	Asn
			565					570						575	
Gln	Leu	Leu	Ser	Phe	Asn	Val	Ser	Ile	Pro	Leu	Asp	Lys	Phe	Leu	Pro
			580				585						590		
Gln	Thr	Trp	Ala	Asn	Tyr	Gly	Met	Asn	Ala	Ser	Ser	Asn	Asn	Gly	Thr
		595				600						605			
Thr	His	Asn	Val	Gly	Leu	Asn	Gly	Val	Ala	Leu	Glu	Asn	Arg	Ala	Leu
	610					615					620				
Ser	Trp	Asn	Val	Gln	Gln	Gly	Tyr	Gly	Thr	Glu	Gly	Val	Gly	Asn	Thr
625				630					635						640
Gly	Asn	Val	Asn	Ala	Asp	Tyr	Lys	Gly	Thr	Tyr	Gly	Glu	Val	Thr	Ala

				645					650				655				
Gly	Tyr	Gly	Tyr	Asp	Lys	Asn	Ser	Glu	Arg	Leu	Asn	Tyr	Gly	Leu	Gln		
			660					665					670				
Gly	Gly	Ile	Leu	Ala	His	Ala	Asp	Gly	Ile	Thr	Leu	Ser	Gln	Pro	Leu		
		675					680					685					
Gly	Glu	Thr	Ser	Val	Leu	Ile	Lys	Ala	Pro	Gly	Ala	Tyr	Asp	Val	Asp		
		690				695					700						
Ile	Arg	Asn	Gln	Pro	Gly	Val	Arg	Thr	Asp	Phe	Arg	Gly	Tyr	Thr	Val		
705					710					715					720		
Val	Ser	Asn	Leu	Ser	Val	Tyr	Arg	Lys	Asn	Asp	Leu	Thr	Leu	Asp	Pro		
				725					730					735			
Glu	Thr	Met	Pro	Asp	Asp	Val	Glu	Leu	Glu	Ile	Asn	Thr	Arg	Thr	Val		
			740					745					750				
Thr	Pro	Thr	Arg	Gly	Ala	Val	Val	Arg	Ala	Asp	Tyr	Leu	Pro	Lys	Ser		
		755					760					765					
Gly	Arg	Arg	Val	Leu	Met	Thr	Leu	Thr	Asp	Asn	Asp	Arg	Ala	Val	Pro		
		770				775				780							
Phe	Gly	Ala	Val	Val	Thr	Leu	Val	Gly	Asp	Glu	Ser	Gly	Ser	Phe	Ile		
785					790					795					800		
Val	Gly	Asp	Arg	Gly	Gln	Val	Tyr	Leu	Thr	Gly	Met	Arg	Glu	Gln	Gly		
				805					810					815			
Thr	Leu	Val	Ala	Thr	Trp	Gly	Ser	Gln	Ser	Ser	Gln	Gln	Cys	Arg	Ala		
			820					825					830				
Asp	Phe	Thr	Leu	Pro	Asn	His	Ser	Met	Tyr	Gly	Gly	Ile	Ala	Asp	Met		
		835				840						845					
Arg	Ala	Thr	Cys	Arg	Gln	Glu	Arg										
		850				855											

<210> 7159

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7159

Arg	Cys	Thr	Ala	Gly	Asp	Glu	Gln	Pro	Thr	Ile	Phe	Ala	Thr	Val	Cys		
1				5					10					15			
Arg	Gly	Ala	Arg	Asp	Val	Ala	Ile	Asn	Gly	Pro	Ile	Leu	Pro	Asp	Val		
		20						25					30				
Asn	Pro	Arg	Gly	Val	Arg	Phe	Ser	Glu	Cys	Leu	Arg	His	Pro	Glu	Phe		
		35					40					45					
Asp	Leu	Pro	Val	Ala	Gly	Lys	Lys	Met	Lys	Ile	Arg	Cys	Arg	Thr	Leu		
		50				55					60						
Leu	Leu	Leu	Ala	Leu	Leu	Ser	Gly	Lys	Val	Cys	Ser	Ala	Asp	Ser	Val		
				70						75					80		
Asn	Ile	Gly	Val	Thr	Gly	Asn	Ile	Val	Ala	Ser	Pro	Cys	Ile	Phe	Asn		
				85					90					95			
Gly	Gly	Asn	Asn	Asn	Leu	Asp	Val	Asn	Leu	Gly	Asn	Ile	Gln	Ala	Thr		
		100						105					110				
Asn	Met	Ala	Thr	Pro	Gly	Ser	Thr	Ser	Asp	Pro	Val	Pro	Phe	Ser	Leu		
		115					120					125					
Leu	Phe	Thr	Gln	Cys	Pro	Thr	Gly	Thr	Gln	Ser	Val	Thr	Val	Ala	Phe		
		130				135					140						
Thr	Gly	Ser	Pro	Asp	Pro	Glu	Ala	Gly	Ala	Asp	Tyr	Phe	Met	Asn	Ser		
				150						155					160		
Gly	Ser	Ala	Thr	His	Val	Ala	Ile	Ala	Met	Arg	Asp	Ala	Gln	Thr	Gly		
				165					170					175			
Ala	Leu	Lys	Gly	Thr	Gly	Ser	Ser	Met	Thr	Gln	Thr	Ile	Ala	Ala	Asp		
			180					185					190				
Arg	Thr	Ala	Thr	Leu	Ala	Met	Leu	Ala	Ser	Val	Lys	Ser	Met	Thr	Gly		
		195					200					205					
Gly	Ala	Thr	Pro	Gly	Ser	Ile	Arg	Ala	Val	Val	Val	Met	Thr	Met	Gln		

210
Tyr Asn
225

215

220

<210> 7160
<211> 428
<212> PRT
<213> Enterobacter cloacae

<400> 7160

Cys	Ala	Ile	Thr	Glu	Phe	Ser	Pro	Arg	Val	Phe	Val	Val	Thr	Pro	Ser
1				5					10					15	
Ile	Phe	Arg	Ile	Ser	Met	Leu	Thr	Thr	Ile	Ile	Tyr	Arg	Ser	His	Ile
			20					25					30		
Cys	Glu	Asp	Val	Pro	Val	Lys	Ala	Leu	Glu	Asp	Met	Val	Ala	Ala	Ala
		35					40					45			
Asn	Cys	Arg	Asn	Arg	Gln	Phe	Asp	Val	Thr	Gly	Ile	Leu	Leu	Phe	Asn
		50				55					60				
Gly	Thr	His	Phe	Phe	Gln	Leu	Leu	Glu	Gly	Pro	Ala	Asp	Asn	Val	Lys
65					70					75					80
Glu	Ile	Tyr	Gln	Leu	Ile	Cys	Arg	Asp	Pro	Arg	His	His	Asn	Val	Val
				85					90					95	
Glu	Leu	Leu	Ser	Asp	His	Gly	Pro	Ser	Arg	Arg	Phe	Gly	Asn	Val	Gly
			100					105					110		
Met	Glu	Leu	Phe	Asp	Leu	Arg	Gln	Tyr	Asp	Thr	Asp	Glu	Val	Leu	Gln
		115					120					125			
Lys	Val	Leu	Asp	Lys	Gly	Thr	Thr	Arg	Tyr	Gln	Leu	Thr	Tyr	Asn	Asp
		130				135					140				
Arg	Ala	Leu	Gln	Phe	Phe	Arg	Thr	Phe	Val	Glu	Ala	Thr	Glu	Lys	Ala
145					150					155					160
Asn	Tyr	Phe	Glu	Leu	Pro	Pro	Ala	Asp	Ala	Trp	Glu	Phe	Val	Thr	Glu
			165						170					175	
Asn	Thr	Pro	Leu	Ser	Ser	Gln	Pro	Thr	Val	Val	Ala	Lys	Gly	Ala	Asp
			180					185					190		
Cys	Ser	Phe	Ala	Phe	Gln	Pro	Ile	Val	Asp	Pro	Phe	Met	Gln	Gln	Val
		195					200					205			
Val	Ser	Trp	Glu	Ala	Leu	Ile	Arg	Thr	Pro	Ser	Gly	Glu	Ser	Pro	Glu
	210					215					220				
Ser	Tyr	Phe	Ala	Asn	Leu	Ser	Arg	Glu	Ala	Leu	Tyr	Glu	Ser	Asp	Leu
				230						235					240
Lys	Ser	Lys	Gln	Val	Ala	Leu	Ser	Met	Ala	Ser	Ala	Leu	Gly	Leu	Gln
			245						250					255	
Thr	Gln	Thr	Leu	Ser	Ile	Asn	Leu	Leu	Pro	Met	Thr	Leu	Val	Asn	Val
			260					265					270		
Pro	Gly	Ala	Val	Asp	Phe	Leu	Leu	Thr	Ala	Ile	Glu	Ala	Asn	Gly	Phe
		275					280					285			
Val	Pro	Glu	Gln	Ile	Val	Val	Glu	Phe	Thr	Glu	Ser	Glu	Ala	Ile	Ser
	290					295					300				
Arg	Phe	Glu	Glu	Phe	Thr	Ser	Ala	Val	Arg	Gln	Leu	Lys	Ser	Ala	Gly
305					310					315					320
Ile	Ser	Val	Ala	Ile	Asp	His	Phe	Gly	Ala	Gly	Phe	Ala	Gly	Leu	Gln
			325					330						335	
Leu	Leu	Ala	Gln	Phe	Gln	Pro	Asp	Arg	Ile	Lys	Ile	Asn	Arg	Asp	Leu
			340					345					350		
Ile	Ala	Asn	Val	His	Lys	Ser	Gly	Pro	Arg	Gln	Ala	Ile	Ile	Gln	Ser
		355					360					365			
Ile	Ile	Lys	Cys	Cys	Ala	Ser	Leu	Glu	Ile	Leu	Phe	Cys	Ala	Val	Gly
	370					375					380				
Val	Glu	Leu	Ala	Glu	Glu	Trp	Met	Trp	Leu	Glu	Ser	Ala	Gly	Ile	Ser
385					390					395					400
Gln	Phe	Gln	Gly	His	Leu	Phe	Ala	Ser	Pro	Arg	Leu	Gly	Gly	Ile	Pro

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<210> 7161
<211> 284
<212> PRT
<213> Enterobacter cloacae
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<210> 7162
<211> 126
<212> PRT
<213> Enterobacter cloacae
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<400> 7162															
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1				5					10					15	
Ala	Trp	Arg	Gly	Leu	Thr	Leu	Thr	Pro	Ala	Ala	Ala	Ala	Ala	His	Ile
			20					25						30	His
Glu	Leu	Val	Ala	Lys	Asn	Pro	Asp	Ile	Leu	Gly	Val	Arg	Leu	Gly	Val
		35					40					45			
Lys	Gln	Thr	Gly	Cys	Ala	Gly	Phe	Gly	Tyr	Val	Leu	Asp	Thr	Val	Thr
	50					55					60				

Glu	Pro	Glu	Lys	Asp	Asp	Leu	Val	Phe	Glu	Thr	Asp	Gly	Ala	Lys	Leu
65					70					75					80
Tyr	Val	Ala	Leu	Gln	Ala	Met	Pro	Phe	Ile	Asp	Gly	Thr	Glu	Val	Asp
				85					90					95	
Tyr	Val	Arg	Glu	Gly	Leu	Asn	Gln	Leu	Phe	Lys	Phe	His	Asn	Pro	Lys
			100					105					110		
Ala	Gln	Asn	Glu	Cys	Gly	Cys	Gly	Glu	Ser	Phe	Gly	Val			
		115					120					125			

<210> 7163

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7163

Asn	Pro	Val	Thr	Leu	Arg	Trp	Leu	Asn	Asn	Trp	Arg	Ser	Arg	Val	Met
1				5					10					15	
Ala	Gly	Leu	Pro	Asn	Ser	Ser	Asn	Ala	Leu	Gln	Gln	Trp	His	Arg	Leu
			20					25					30		
Phe	Glu	Ala	Gln	Ala	Gly	Ala	Arg	Ser	Glu	Gln	Ala	Gln	His	His	Leu
		35					40					45			
Gln	Gln	Met	Leu	Arg	Leu	Gly	Leu	Pro	Thr	Arg	Lys	His	Glu	Asn	Trp
		50				55					60				
Lys	Tyr	Thr	Pro	Leu	Asp	Gly	Leu	Leu	Asn	Gly	Glu	Phe	Val	Thr	Arg
65					70					75					80
Leu	Ala	Gln	Val	Ser	Pro	Gly	Gln	Arg	Asp	Val	Leu	Ala	Leu	Ser	Val
				85					90					95	
Asp	Ala	Val	Arg	Leu	Val	Phe	Val	Asp	Gly	Gln	Phe	Arg	Glu	Glu	Leu
		100						105					110		
Ser	Asp	Ser	Val	Gln	Glu	Ser	Gly	Phe	Asp	Ile	Val	Ile	Asn	Asp	Glu
		115					120					125			
Arg	Gln	Ser	Leu	Asn	Ala	Pro	Val	Gln	Pro	Glu	Val	Phe	Leu	His	Leu
		130				135					140				
Thr	Glu	Ser	Leu	Ser	Gln	Ser	Val	Thr	His	Ile	Arg	Val	Lys	Arg	Asn
145					150					155					160
Gln	Arg	Pro	Ala	Lys	Pro	Leu	Leu	Leu	Met	His	Ile	Thr	Gln	Gly	Val
				165					170					175	
Ala	Gly	Asp	Glu	Ile	Asn	Thr	Ala	His	Tyr	Arg	His	His	Leu	Glu	Leu
			180					185					190		
Ala	Glu	Gly	Ala	Glu	Ala	Thr	Val	Ile	Glu	His	Tyr	Val	Ser	Leu	Asn
		195					200					205			
Asp	Thr	Arg	His	Phe	Thr	Gly	Ser	Arg	Leu	Thr	Met	Asn	Val	Ala	Ala
	210					215					220				
Asn	Ala	Gln	Leu	His	His	Ile	Lys	Leu	Ala	Phe	Glu	Asn	Pro	Leu	Ser
225					230					235					240
His	His	Phe	Ala	His	Asn	Asp	Ile	Leu	Leu	Gly	Gln	Asp	Ala	Ala	Ala
				245					250					255	
Tyr	Ser	His	Ser	Phe	Leu	Leu	Gly	Gly	Ala	Val	Leu	Arg	His	Asn	Thr
			260					265					270		
Ser	Thr	Gln	Leu	Asn	Gly	Glu	Asn	Thr	Thr	Leu	Arg	Ile	Asn	Ser	Leu
		275					280					285			
Ala	Met	Pro	Val	Lys	Ser	Glu	Val	Cys	Asp	Thr	Arg	Thr	Trp	Leu	Glu
		290				295					300				
His	Asn	Lys	Gly	Tyr	Cys	Asn	Ser	Arg	Gln	Leu	His	Lys	Thr	Ile	Val
305					310					315					320
Ser	Asp	Lys	Gly	Arg	Ala	Val	Phe	Asn	Gly	Leu	Ile	Asn	Val	Ala	Gln
				325					330					335	
His	Ala	Ile	Lys	Thr	Asp	Gly	Gln	Met	Thr	Asn	Asn	Asn	Leu	Leu	Leu
			340					345					350		
Gly	Arg	Leu	Ala	Glu	Val	Asp	Thr	Lys	Pro	Gln	Leu	Glu	Ile	Tyr	Ala
		355					360					365			

Asp	Asp	Val	Lys	Cys	Ser	His	Gly	Ala	Thr	Val	Gly	Arg	Ile	Asp	Asp
	370					375					380				
Glu	Gln	Met	Phe	Tyr	Leu	Arg	Ser	Arg	Gly	Ile	Asp	Gln	Gln	Ala	Ala
385					390					395					400
Gln	Lys	Met	Ile	Ile	Tyr	Ala	Phe	Ala	Ala	Glu	Leu	Thr	Glu	Ala	Leu
			405						410					415	
Pro	Asp	Gly	Gly	Leu	Lys	Gln	Gln	Val	Leu	Ala	Arg	Ile	Gly	Gln	Arg
			420					425					430		
Leu	Pro	Gly	Gly	Glu	Ala										
			435												

<210> 7164

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 7164

Ser	Pro	His	Gly	Glu	Val	Asn	Pro	Ala	Ser	Asn	Ala	Ala	Leu	Ile	Ser
1			5						10					15	
Arg	Cys	Arg	Ile	Thr	Gln	Cys	Thr	Val	Gly	Ser	Leu	Ile	Cys	Ala	Pro
			20					25					30		
Pro	Ala	Val	Arg	Asn	Ala	Asn	Met	Lys	Cys	Leu	Asn	Ser	Met	Leu	Leu
		35					40					45			
Leu	Cys	Leu	Leu	Ala	Ala	Gly	Ser	Ile	Ala	Arg	Ala	Gly	Thr	Cys	Thr
	50					55					60				
Thr	Ile	Ile	Pro	Gln	Leu	Ser	Thr	Leu	Ser	Val	Gly	Thr	Ile	Asn	Val
65					70					75				80	
Gln	Arg	Asp	Ala	Pro	Val	Gly	Thr	Val	Val	Phe	Ser	Gly	Ala	Ala	Ser
			85						90					95	
Ala	Thr	Gly	Ser	Tyr	Leu	Thr	Gly	Cys	Thr	Asn	Pro	Leu	Met	Leu	Gly
			100					105					110		
Phe	Ser	Met	Arg	Tyr	Asn	Ser	Ala	Thr	Leu	Ser	Ser	Tyr	Gly	Asn	His
		115					120					125			
Val	Tyr	Asn	Thr	Asn	Val	Ile	Gly	Ile	Gly	Ile	Arg	Phe	Ser	Ser	Asn
	130					135					140				
Gly	Tyr	Phe	Glu	Asn	Pro	Ser	Asn	Thr	Phe	Ser	Tyr	Asn	Ala	Gln	Thr
145				150					155					160	
Ser	Tyr	Val	Asp	Trp	Tyr	Gly	Gly	Arg	Ile	Glu	Leu	Val	Val	Thr	Gly
			165						170					175	
Pro	Val	Ser	Ser	Gly	Ala	Leu	Thr	Pro	Gly	Val	Ile	Gly	Val	Val	Thr
		180						185					190		
Leu	Gln	Gly	Ser	Asp	Gly	Leu	Tyr	Arg	Asp	Gly	Leu	Thr	Thr	Gln	Leu
		195					200					205			
Thr	Ser	Gly	Asn	Ile	Asn	Ala	Leu	Ala	Cys	Thr	Val	Asn	Thr	Ala	Gln
	210				215						220				
Leu	Thr	Phe	Pro	Ile	Gly	Asp	Ile	Pro	Ala	Ser	Ala	Phe	Gly	Thr	Val
225					230					235					240
Val	Gly	Thr	Thr	Pro	Ala	Gly	Ala	Gln	Asn	Thr	Gln	Asn	Leu	Gly	Leu
				245					250					255	
Thr	Cys	Ala	Ala	Gly	Thr	Asn	Ile	Thr	Val	Ser	Leu	Ser	Gly	Ile	Gln
		260						265					270		
Asn	Pro	Asp	Ser	Ala	Asn	Thr	Ser	Val	Met	Ala	Leu	Thr	Gly	Gln	Gly
		275					280					285			
Asn	Ala	Gly	Thr	Ala	Lys	Gly	Val	Gly	Val	Gln	Leu	Ile	Tyr	Asn	Gly
	290					295					300				
Ala	Pro	Leu	Ala	Met	Asn	Ser	Arg	Leu	Phe	Leu	Arg	Gln	Ser	Ala	Gly
305					310					315					320
Gly	Gln	Glu	Thr	Leu	Pro	Leu	Thr	Ala	Arg	Tyr	Tyr	Gln	Thr	Leu	Thr
				325					330					335	
Arg	Val	Glu	Ser	Gly	Ser	Ala	Asn	Ala	Ser	Ala	Thr	Leu	Asn	Leu	Thr
			340					345					350		

Tyr Gln
355

<210> 7165
<211> 178
<212> PRT
<213> Enterobacter cloacae

<400> 7165
Gly Thr Gly His Val Pro Arg Ile Ala Gly Asp Val Gln His Asn Gly
1 5 10 15
Arg Gly Arg Gln Thr Gly Gly Gly Ile Lys Thr Tyr Ser Ser Ala Ala
20 25 30
Trp Leu Thr Glu Arg Arg Glu Met Ala Asp Leu Pro Asp Arg Asp Lys
35 40 45
Leu Leu Arg Asn Phe Gly Arg Cys Ala Asn Trp Glu Glu Lys Tyr Leu
50 55 60
Tyr Ile Ile Glu Leu Gly Gln Arg Leu Pro Pro Leu Ser Glu Glu Ala
65 70 75 80
His Asn Pro Asp Asn Ile Ile Gln Gly Cys Gln Ser Gln Val Trp Ile
85 90 95
Gln Met Gln Gln Thr Asp Asp Val Val Ile Asp Leu Gln Gly Asp Ser
100 105 110
Asp Ala Ala Ile Val Lys Gly Leu Ile Ala Val Val Phe Ile Leu Tyr
115 120 125
His Gln Met Ser Ala Gln Asp Ile Val Ala Phe Asp Val Arg Pro Trp
130 135 140
Phe Glu Lys Met Ala Leu Thr Gln His Leu Thr Pro Ser Arg Ser Gln
145 150 155 160
Gly Leu Glu Ala Met Ile Arg Ala Ile Arg Ala Lys Ala Ala Ile Leu
165 170 175
Ser

<210> 7166
<211> 282
<212> PRT
<213> Enterobacter cloacae

<400> 7166
Pro Glu Ser Pro Glu Arg Met Arg Leu Arg Arg Lys Leu Trp Gly Ile
1 5 10 15
Gly Gly Thr Met Ser Arg Asn Thr Glu Ala Thr Ser Asp Val Asn Thr
20 25 30
Trp Ser Gly Gly His Leu Asn Tyr Lys Glu Gly Phe Phe Thr Gln Leu
35 40 45
Gln Thr Asp Glu Leu Ala Lys Gly Ile Asn Glu Glu Val Val Arg Ala
50 55 60
Ile Ser Ala Lys Arg Asn Glu Pro Glu Trp Met Leu Glu Phe Arg Leu
65 70 75 80
Ser Ala Phe Arg Ala Trp Leu Glu Met Glu Glu Pro His Trp Leu Lys
85 90 95
Ala His Tyr Asp Lys Leu Asn Tyr Gln Asp Tyr Ser Tyr Tyr Ser Ala
100 105 110
Pro Ser Cys Gly Ser Cys Asp Asp Thr Cys Ala Ser Gln Pro Gly Ala
115 120 125
Val Gln Gln Thr Gly Ala Glu Asn Ser Phe Leu Ser Lys Glu Val Glu
130 135 140
Glu Ala Phe Asn Gln Leu Gly Val Pro Val Arg Glu Gly Lys Glu Val
145 150 155 160
Ala Val Asp Ala Ile Phe Asp Ser Val Ser Val Ala Thr Thr Tyr Arg

				165				170					175				
Glu	Lys	Leu	Ala	Glu	Gln	Gly	Ile	Ile	Phe	Cys	Ser	Phe	Gly	Glu	Ala		
			180					185					190				
Ile	His	Asp	His	Pro	Glu	Leu	Val	Lys	Lys	Tyr	Ile	Gly	Thr	Val	Val		
		195					200					205					
Pro	Ser	Asn	Asp	Asn	Phe	Phe	Ala	Ala	Leu	Asn	Ala	Ala	Val	Ala	Ser		
		210				215					220						
Asp	Gly	Thr	Phe	Ile	Tyr	Val	Pro	Lys	Gly	Val	Arg	Cys	Pro	Met	Glu		
225					230				235						240		
Leu	Ser	Thr	Tyr	Phe	Arg	Ile	Asn	Ala	Glu	Lys	Thr	Gly	Gln	Phe	Glu		
				245					250					255			
Arg	His	Ile	Leu	Val	Ala	Asp	Glu	Ser	Ser	Tyr	Val	Ser	Tyr	Ile	Glu		
			260					265					270				
Gly	Cys	Ser	Ala	Pro	Val	Arg	Asp	Ser									
		275					280										

<210> 7167

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 7167

Gln	Leu	Gln	Pro	Gly	Val	Val	Glu	Val	Ile	Ile	His	Lys	Asp	Ala	Glu		
1				5				10						15			
Val	Lys	Tyr	Phe	Thr	Val	Gln	Asn	Cys	Ser	Pro	Gly	Asp	Val	Asn	Thr		
			20				25						30				
Gly	Gly	Ile	Leu	Asn	Phe	Val	Thr	Lys	Arg	Ala	Leu	Cys	Glu	Gly	Glu		
		35					40					45					
Asn	Ser	Lys	Met	Ser	Trp	Thr	Gln	Ser	Glu	Thr	Gly	Ser	Ala	Ile	Thr		
		50				55					60						
Trp	Lys	Tyr	Pro	Ser	Cys	Ile	Leu	Arg	Gly	Asp	Asn	Ser	Ile	Gly	Glu		
65					70				75						80		
Phe	Tyr	Ser	Val	Ala	Leu	Thr	Ser	Gly	His	Gln	Gln	Ala	Asp	Thr	Gly		
				85				90						95			
Thr	Lys	Met	Ile	His	Ile	Gly	Lys	Asn	Thr	Lys	Ser	Thr	Ile	Ile	Ser		
			100					105					110				
Lys	Gly	Ile	Ser	Ala	Gly	His	Ser	Gln	Asn	Ser	Tyr	Arg	Gly	Leu	Val		
		115					120					125					
Lys	Ile	Met	Pro	Thr	Ala	Thr	Asn	Ala	Arg	Asn	Phe	Thr	Gln	Cys	Asp		
		130				135					140						
Ser	Met	Leu	Ile	Gly	Ala	Asp	Cys	Gly	Ala	His	Thr	Phe	Pro	Tyr	Val		
145					150				155						160		
Glu	Cys	Arg	Asn	Asn	Ser	Ala	Gln	Leu	Glu	His	Glu	Ala	Thr	Thr	Ser		
				165				170						175			
Arg	Ile	Gly	Glu	Asp	Gln	Leu	Phe	Tyr	Cys	Leu	Gln	Arg	Gly	Ile	Ser		
			180				185						190				
Glu	Glu	Asp	Ala	Ile	Ser	Met	Ile	Val	Asn	Gly	Phe	Cys	Lys	Asp	Val		
		195					200					205					
Phe	Ser	Glu	Leu	Pro	Leu	Glu	Phe	Ala	Val	Glu	Ala	Gln	Lys	Leu	Leu		
		210				215					220						
Ala	Ile	Ser	Leu	Glu	His	Ser	Val	Gly									
225					230												

<210> 7168

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 7168

Gly	Lys	His	Met	Leu	Ser	Ile	Lys	Asp	Leu	Gln	Val	Ser	Val	Glu	Glu		
1				5				10						15			

Lys Glu Ile Leu Arg Gly Leu Asn Phe Asp Val Lys Pro Gly Glu Val
 20 25 30
 His Ala Ile Met Gly Pro Asn Gly Ser Gly Lys Ser Thr Leu Ser Ala
 35 40 45
 Thr Leu Ala Gly Arg Glu Asp Tyr Glu Val Thr Ser Gly Ser Val Glu
 50 55 60
 Phe Asn Gly Lys Asp Leu Leu Glu Met Ser Pro Glu Glu Arg Ala Gly
 65 70 75 80
 Glu Gly Ile Phe Met Ala Phe Gln Tyr Pro Val Glu Ile Pro Gly Val
 85 90 95
 Ser Asn Gln Phe Phe Leu Gln Thr Ala Leu Asn Ala Val Arg Lys Tyr
 100 105 110
 Arg Gly Leu Glu Ala Leu Asp Arg Phe Asp Phe Gln Asp Leu Met Glu
 115 120 125
 Glu Lys Ile Lys Leu Leu Lys Met Pro Glu Asp Leu Leu Thr Arg Ser
 130 135 140
 Val Asn Val Gly Phe Ser Gly Gly Glu Lys Lys Arg Asn Asp Ile Leu
 145 150 155 160
 Gln Met Ala Val Leu Glu Pro Ala Leu Cys Ile Leu Asp Glu Thr Asp
 165 170 175
 Ser Gly Leu Asp Ile Asp Ala Leu Lys Ile Val Ala Asp Gly Val Asn
 180 185 190
 Ser Leu Arg Asp Gly Asn Arg Ser Phe Ile Ile Val Thr His Tyr Gln
 195 200 205
 Arg Ile Leu Asp Tyr Ile Lys Pro Asp Tyr Val His Val Leu Tyr Gln
 210 215 220
 Gly Arg Ile Val Lys Ser Gly Asp Phe Thr Leu Val Lys Gln Leu Glu
 225 230 235 240
 Glu Gln Gly Tyr Gly Trp Leu Thr Glu Gln Gln
 245 250

<210> 7169

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 7169

Thr Ala Gly Ala Gly Pro Tyr Arg Ser Ala Thr Ala Trp Arg Arg Ser
 1 5 10 15
 Met Thr Phe Pro Val Glu Lys Val Arg Ala Asp Phe Pro Val Leu Thr
 20 25 30
 Arg Glu Val Asn Gly Leu Pro Leu Ala Tyr Leu Asp Ser Ala Ala Ser
 35 40 45
 Ala Gln Lys Pro Asn Gln Val Val Asp Ala Glu Ala Glu Phe Tyr Arg
 50 55 60
 His Gly Tyr Ala Ala Val His Arg Gly Ile His Thr Leu Ser Ala Glu
 65 70 75 80
 Ala Thr Gln Arg Met Glu Asn Val Arg Thr Gln Val Ala Ala Phe Leu
 85 90 95
 Asn Ala Arg Ser Pro Glu Glu Leu Val Phe Val Arg Gly Thr Thr Glu
 100 105 110
 Gly Ile Asn Leu Val Ala Asn Ser Trp Gly Asn Ala Gln Val His Ala
 115 120 125
 Gly Asp Asn Ile Ile Ile Thr Gln Met Glu His His Ala Asn Ile Val
 130 135 140
 Pro Trp Gln Met Leu Cys Glu Arg Val Gly Ala Gln Leu Arg Val Ile
 145 150 155 160
 Pro Leu Asn Glu Asp Gly Thr Leu Gln Leu Glu Lys Leu Asp Ala Leu
 165 170 175
 Leu Asp Asp Arg Thr Arg Leu Val Ala Val Thr His Val Ser Asn Val
 180 185 190

Leu Gly Thr Glu Asn Pro Val Ala Leu Ile Val Asp Lys Ala His Gln
 195 200 205
 Ala Gly Ala Lys Val Leu Ile Asp Gly Ala Gln Ala Val Met His His
 210 215 220
 Ala Val Asp Val Gln Ala Leu Asp Cys Asp Phe Tyr Val Phe Ser Gly
 225 230 235 240
 His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Val Leu Tyr Val Lys Glu
 245 250 255
 Asp Ile Leu Gln Ala Met Pro Pro Trp Glu Gly Gly Gly Ser Met Ile
 260 265 270
 Ala Thr Val Ser Leu Thr Glu Gly Thr Thr Tyr Ala Arg Ala Pro Trp
 275 280 285
 Arg Phe Glu Ala Gly Thr Pro Asn Thr Gly Gly Ile Ile Gly Leu Gly
 290 295 300
 Ala Ala Ile Ser Tyr Val Ser Glu Thr Gly Leu Ala Ala Ile Gln Glu
 305 310 315 320
 Tyr Glu Gln Leu Leu Met His Tyr Ala Leu Gln Glu Leu Ala Ser Val
 325 330 335
 Pro Glu Leu Thr Leu Tyr Gly Pro Ala Asp Arg Leu Gly Val Ile Ala
 340 345 350
 Phe Asn Leu Gly Lys His His Ala Tyr Asp Val Gly Ser Phe Leu Asp
 355 360 365
 Asn Tyr Gly Val Ala Val Arg Thr Gly His His Cys Ala Met Pro Leu
 370 375 380
 Met Ala Tyr Tyr Glu Val Pro Ala Met Cys Arg Ala Ser Leu Val Met
 385 390 395 400
 Tyr Asn Thr Thr Glu Glu Val Asp Arg Leu Val Ala Gly Leu Lys Arg
 405 410 415
 Ile His Gln Leu Leu Gly
 420

<210> 7170

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7170

Ile Arg Asn Leu Ser Met Lys Arg Ala Ser Leu Ile Thr Leu Leu Leu
 1 5 10 15
 Leu Gly Ser Leu Ser Ala Val Asn Ser Ala Arg Ala Val Asp Tyr Pro
 20 25 30
 Leu Pro Pro Ala Gly Ser Arg Leu Ile Gly Gln Asn Gln Thr Tyr Thr
 35 40 45
 Ile Gln Glu Gly Asp Asn Lys Leu Gln Ser Ile Ala Arg Arg Phe Asn
 50 55 60
 Thr Ala Ala Gln Leu Ile Leu Glu Thr Asn Asn Thr Ile Ala Pro Val
 65 70 75 80
 Asn Pro Ala Pro Gly Thr Val Ile Thr Ile Pro Ser Gln Met Leu Leu
 85 90 95
 Pro Asp Thr Glu Arg Glu Gly Ile Val Val Asn Leu Ala Glu Leu Arg
 100 105 110
 Leu Tyr Phe Tyr Pro Pro Gly Glu Asn Ile Val Gln Val Tyr Pro Leu
 115 120 125
 Gly Ile Gly Gln Leu Gly Leu Glu Thr Pro Val Ser Thr Thr Arg Val
 130 135 140
 Ser Gln Lys Ile Pro Asn His Thr Trp Thr Pro Thr Ala Gly Ile Arg
 145 150 155 160
 Ala Arg Ser Leu Ala Gln Gly Ile Lys Leu Pro His Val Val Pro Ala
 165 170 175
 Gly Pro Asn Asn Pro Leu Gly Arg Phe Ala Leu Arg Leu Gly Ile Gly
 180 185 190

Asn Gly Glu Tyr Ser Ala Asp Gly Pro Lys
 195 200

<210> 7171

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7171

Glu	Glu	Gly	Ser	Met	Ala	Asn	Asp	Trp	Leu	Glu	Leu	Arg	Gln	His	Ala
1			5						10					15	
Glu	Thr	Gly	Ile	Glu	Thr	Ile	Lys	Ala	His	Phe	Glu	Gly	His	Ala	Phe
			20					25					30		
Asp	Pro	His	Trp	His	Asp	Ser	Tyr	Leu	Val	Gly	Ile	Thr	Leu	Ser	Gly
		35					40					45			
Thr	Gln	Gln	Phe	His	Cys	Arg	Arg	Glu	Arg	His	Arg	Ser	Gln	Pro	Gly
	50					55					60				
Asp	Ala	Phe	Leu	Leu	Glu	Pro	Gly	Glu	Ile	His	Asp	Gly	Asp	Ala	Pro
65					70					75					80
Val	Glu	Gly	Gly	Phe	Thr	Tyr	Leu	Thr	Phe	Tyr	Leu	Asp	Glu	His	Trp
				85					90					95	
Leu	Thr	His	Thr	Leu	Gln	Gly	Leu	Tyr	Asp	Ser	Thr	Pro	Gly	Ser	Tyr
			100					105					110		
Thr	Leu	His	Phe	Ala	Gln	Thr	Leu	Thr	Arg	Glu	Pro	Gln	Leu	Val	Arg
		115					120					125			
Ala	Ile	Gly	Asp	Thr	Phe	Ala	Ser	Leu	His	Asn	Asp	Glu	Met	Lys	Ile
	130					135					140				
Val	Gln	Gln	Ser	Thr	Met	Asp	Asn	Leu	Leu	Ser	Gln	Ile	Thr	Thr	His
145					150					155					160
Cys	His	Trp	Arg												

165

<210> 7172

<211> 330

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (31)

<220>

<221> UNSURE

<222> (42)

<400> 7172

Lys	Leu	Thr	Ser	Gln	Leu	Gln	Ser	Ser	Ala	Val	Ala	His	Arg	Ala	Arg
1			5						10					15	
Asp	Tyr	Leu	Tyr	Ala	His	Ile	Gly	Glu	Asn	Val	Gly	Leu	Ser	Xaa	Leu
			20					25					30		
Ala	Arg	Glu	Thr	Gly	Thr	Asp	Arg	Phe	Xaa	Leu	Thr	Arg	Cys	Phe	Lys
		35					40					45			
Arg	Glu	Phe	Thr	Trp	Ala	Arg	Thr	Pro	Gly	Leu	Ser	Ser	Cys	Asp	Trp
	50					55					60				
Gln	Arg	Pro	Asp	Arg	Cys	Trp	Arg	Val	Gly	Asn	Cys	Leu	Leu	Met	Leu
65					70					75					80
Arg	Arg	Gln	Trp	Val	Leu	Pro	Ile	Lys	Ala	Ile	Leu	Val	Ala	Gly	Ser
				85					90					95	
Ser	Val	His	Thr	Val	Phe	Leu	Arg	His	Thr	Thr	Ala	Gly	Cys	Ala	Gln
			100					105				110			
Thr	Phe	Gln	Thr	Phe	Pro	Glu	Asn	Asn	Gly	Thr	Phe	Val	Ala	Leu	Ile

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<210> 7173
<211> 270
<212> PRT
<213> Enterobacter cloacae
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<400> 7173															
Gly 1	Ser	Phe	Asn	Gln 5	Val	Phe	Arg	Arg	His 10	Asn	Arg	Gln	Val	Gly 15	His
Phe	Ser	Gln	Leu 20	Leu	Tyr	Arg	Gln	Leu 25	Leu	Ile	Ala	Ile	Trp 30	Arg	Val
Gln	Ala	Cys 35	Thr	Asp	Gly	Gly	Cys 40	Ala	Gln	Val	His	Phe 45	Gln	Gln	Gln
Phe	Gly 50	Arg	Thr	Gln	Gln	Val 55	Phe	Arg	Leu	Phe 60	Val	Gln	Gln	His	Val
Lys 65	Arg	Val	Glu	Phe 70	Leu	Ser	Glu	Gly	His 75	Trp	His	Arg	Val	Leu 80	Gln
Leu	Gly	Thr	Ala	His 85	Phe	Gln	Asn	Val 90	Leu	Glu	Leu	Asn	Gly 95	Phe	Thr
Leu	Glu	Ala	Ile 100	Ala	Gln	Leu	Ile	Asn 105	Arg	Val	Asp	Gln	Phe 110	Asn	Asp
Arg	Gly	Ile 115	His	Arg	Asp	Ala	Glu	Ala 120	Gly	Trp	Val	Gly 125	Val	Val	Gly
Gly	Leu 130	Thr	Phe	Val	Asn	Val 135	Val	Val	Arg	Val	Gln	Val 140	Val	Leu	Val
Thr 145	Phe	Leu	Met	Thr	His 150	Gln	Leu	Gln	Ala	Asp	Val	Cys	Gln	His	Phe 160
Val	Gly	Val	His	Val 165	Asp	Arg	Gly	Ala	Arg	Ala	Ala	Leu	Ile	Asp 175	Val
Asp	Arg	Glu	Leu 180	Ile	His	Ala	Phe	Ala 185	Val	Val	Gln	His	Leu 190	Ile	Ala
Arg	Gly	Asp 195	Asn	Arg	Ile	Cys	Ser	Ala 200	Phe	Arg	Asn	Gly 205	Leu	Gln	Leu
Phe	Val	Cys	Gln	Ser	Arg	Gly	Phe	Phe	Tyr	His	His	His	Ala	Thr	His

210	215	220
Lys Phe Arg Asp Val	Ala Asp Phe Ala Val	Ala Asp Val Glu Val Phe
225	230	235
Asn Arg Ser Gln Ser	Val Asn Thr Ile	Val Gly Ile Arg Trp Asn Phe
	245	250
Pro Gly Thr Gln Gln	Ile Phe Phe Asp Thr	Asn Val Val
	260	265
		270

<210> 7174

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7174

Lys Arg Ser Gly Ala	Lys Thr Arg Tyr	Pro Lys Gly Tyr Tyr	Gln Asn
1	5	10	15
Ser Phe Lys Met Ser	Glu Glu Cys Gln	Arg Asn Leu Ala	Arg Arg Asn
	20	25	30
Ala Gln His Phe Ser	Phe Gly His Leu	Phe Ser Ile Arg	Phe Thr Arg
	35	40	45
Gly Gln Leu Leu Ser	Ser Leu Lys Thr	Arg Asn Asn Met	Arg Ile
	50	55	60
Lys Val Cys Ala Gly	Ile Val Gly Ala	Ala Leu Leu Ala	Gly Cys
	65	70	75
Ser Thr Ser Asn Glu	Leu Thr Ala Ala	Gly Gln Ser Val	Arg Phe Val
	85	90	95
Glu Asp Lys Pro Gly	Ser Glu Cys Gln	Leu Leu Gly Thr	Ala Thr Gly
	100	105	110
Glu Gln Ser Asn Trp	Met Ser Gly Gln	His Gly Glu Glu	Gly Gly Ser
	115	120	125
Met Arg Gly Ala Ala	Asn Ala Leu Arg	Asn Gln Ala Ala	Met Gly
	130	135	140
Gly Asn Val Ile Tyr	Gly Val Ser Ser	Pro Thr Gln Gly	Met Leu Ser
	145	150	155
Ser Phe Val Pro Thr	Ala Ser Gln Met	Asn Gly Gln Val	Tyr Lys Cys
	165	170	175
Pro Asn			

<210> 7175

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 7175

Glu Val Ser Val Cys	Phe Asn Asn Gly	Ser Ser Gly Leu	Pro Phe Ser
1	5	10	15
Ile Arg Ala Thr	Asn Ala Arg Gly	Thr Arg Arg Ala	Lys Arg Phe
	20	25	30
Ala Ser Arg Pro	Ala Arg Asn Ala	Ser Cys Cys Ser	Arg Ser Lys Arg
	35	40	45
Arg Ser Asn Ser	Ser Gly Leu Val	Ile Thr Ser Ala	Ser Cys Asp Asn
	50	55	60
Gln Ser Ser Leu	Asp Gly Val Phe	Arg Val Thr Ile	Cys Ala Ile Leu
	65	70	75
Trp Leu Ser Tyr	Gln Leu Thr Asn	Leu Glu Gly Leu	Met Ala Thr Tyr
	85	90	95
Tyr Ser Asn Asp	Phe Arg Ala Gly	Leu Lys Ile Met	Met Asp Gly Glu
	100	105	110
Pro Tyr Ala Val	Glu Ala Ser Glu	Phe Val Lys Pro	Gly Lys Gly Gln
	115	120	125

Ala	Phe	Ala	Arg	Val	Lys	Leu	Arg	Arg	Leu	Leu	Thr	Gly	Thr	Arg	Val
130						135					140				
Glu	Lys	Thr	Phe	Lys	Ser	Thr	Asp	Ser	Ala	Glu	Gly	Ala	Asp	Val	Val
145					150					155					160
Asp	Met	Asn	Leu	Thr	Tyr	Leu	Tyr	Asn	Asp	Gly	Glu	Phe	Trp	His	Phe
				165					170					175	
Met	Asn	Asn	Glu	Thr	Phe	Glu	Gln	Leu	Ser	Ala	Asp	Ala	Lys	Ala	Ile
			180					185					190		
Gly	Asp	Asn	Ala	Lys	Trp	Leu	Leu	Asp	Gln	Ala	Glu	Cys	Ile	Val	Thr
		195					200					205			
Leu	Trp	Asn	Gly	Gln	Pro	Ile	Ala	Val	Thr	Pro	Pro	Asn	Phe	Val	Glu
	210					215					220				
Leu	Glu	Ile	Val	Glu	Thr	Asp	Pro	Gly	Leu	Lys	Gly	Asp	Thr	Ala	Gly
225					230					235					240
Thr	Gly	Gly	Lys	Pro	Ala	Thr	Leu	Ser	Thr	Gly	Ala	Val	Val	Lys	Val
			245					250						255	
Pro	Leu	Phe	Val	Gln	Ile	Gly	Glu	Val	Ile	Lys	Val	Asp	Thr	Arg	Ser
			260				265						270		
Gly	Glu	Tyr	Val	Ser	Arg	Val	Lys								
		275					280								

<210> 7176

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7176

Ala	Gly	Val	Ile	His	Leu	Asn	Cys	Gly	Gln	Gln	Gly	Trp	Val	Gly	Trp
1			5						10					15	
Gln	His	Glu	Gln	Gly	Gly	Asn	Arg	Cys	Lys	Arg	Gly	Asn	Arg	Arg	Gln
			20					25					30		
Arg	Arg	His	Ala	Gln	His	Gln	Cys	Arg	Arg	His	Gln	Arg	Phe	Gly	Gly
		35					40					45			
Arg	Ser	Leu	Gly	Val	Gln	Gln	Arg	Arg	Gly	Lys	Glu	Gln	His	Tyr	Cys
	50					55					60				
Gln	Gln	Pro	Arg	Ile	Val	Val	Gln	Gln	Val	Ala	Cys	Asn	Gly	Leu	Asp
65					70				75						80
Ile	Ala	Asp	Val	Arg	Phe	His	Lys	Gly	Ile	Thr	Glu	Pro	Arg	His	Ala
			85						90					95	
Gln	His	Ala	His	Ala	Gly	Ala	His	Thr	Gly	Phe	Glu	Gly	Ala	Gly	Val
		100						105					110		
Gln	His	Phe	Ala	Gly	Val	Asp	Phe	Thr	Gly	Asp	Ala	Asp	Gln	Arg	Arg
	115						120					125			
Asp	Gly	Gln	His	Lys	His	His	Asn	Gly	Phe	Val	Thr	Arg	Gln	Asn	Arg
	130					135					140				
Val	Leu	Asp	Gln	Thr	Tyr	Arg	Val	Ala	Asp	Gly	Gly	Arg	Val	Glu	His
145					150				155						160
His	Gly	Asp	Asp	Thr	Asn	Gln	Lys	Gln	Gln	His	Gly	Ala	Phe	Cys	Met
			165						170					175	
Arg	Leu	Gln	Leu	Glu	Asp	Leu	Ala	Thr	Ala	Gln	Ala	His	Phe	Thr	Phe
		180						185					190		
Cys	Gln	Thr	Leu	Leu	Val	Asn	Arg	Ile	Val	Phe	Gln	Leu	Gly	Thr	Glu
		195					200					205			
Glu	Val	Thr	Gln	His	Gly	Ser	Asp	His	Tyr	Arg	Asn	Gln	Arg	Asp	Arg
	210					215					220				
Asn	Thr	Asp	Cys	Gln	Gln	Arg	Gln	Val	Thr	Tyr	Ala	His	Trp	Leu	Lys
225					230					235					240
Asp	Ala	Arg	Glu	Glu	Asp	His	Arg	Arg	Gly	Asn	Arg	Arg	Gly	Gly	Asn
			245						250					255	
Arg	Asn	Leu	Gly	Gly	Asp	His	Gly	Asn	Arg	Lys	Arg	Ala	Arg	Arg	Ala
			260					265					270		

Asn Thr Leu Leu Phe Arg His Phe Gly Asp Asp Arg Gln Arg Gly Glu
 275 280 285
 Gly Ser Met Ala Ser Thr Gly Glu Asn Gly His Lys Pro Gly His Gln
 290 295 300
 Arg Gly Lys Glu Gly Asp Val Phe Arg Met Ala Thr Gln His Thr Leu
 305 310 315 320
 Arg Gln Ala His Gln Val Val His Thr Ala Ser Asp Leu His Gly Arg
 325 330 335
 Asp Ser Ser Asn Asn Arg His Asp Asp Phe Asp Asn Val Lys Arg Asp
 340 345 350
 Cys Ala Gly Phe Asn Leu Lys Asp Gln Gly Lys Tyr Lys His Ser Glu
 355 360 365
 Thr Ala Ser Lys Thr Asp Ala Asp Ser Pro Glu Ser Cys Ala Gln Ile
 370 375 380
 Asn Arg Gln Gln Asp Asp Asp Glu Phe Cys Ser Lys His Lys Asp Leu
 385 390 395 400
 Pro Cys Ser Leu Thr Ser
 405

<210> 7177

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7177

Asn Leu Ala Asn Arg Arg His Leu Leu Ser Thr Arg Phe Ala Asn Thr
 1 5 10 15
 Phe Ser Gln Gly Gln Lys Ala Pro Ala Ile Gln Glu Met Pro Val Arg
 20 25 30
 Trp Ile Pro Phe Ile Ala Phe Phe Leu Tyr Val Tyr Ile Glu Ile Ser
 35 40 45
 Ile Phe Ile Gln Val Ala His Val Leu Gly Val Leu Leu Thr Leu Ile
 50 55 60
 Leu Val Ile Phe Thr Ser Val Ile Gly Met Ser Leu Val Arg Asn Gln
 65 70 75 80
 Gly Phe Lys Asn Phe Leu Leu Met Gln Gln Lys Met Ala Ala Gly Glu
 85 90 95
 Ser Pro Ala Ala Glu Met Ile Lys Ser Val Ser Leu Ile Ile Ala Gly
 100 105 110
 Leu Leu Leu Ile Leu Pro Gly Phe Thr Asp Phe Leu Gly Leu Leu
 115 120 125
 Leu Leu Leu Pro Pro Val Gln Lys His Leu Thr Met Lys Leu Leu Pro
 130 135 140
 His Leu Arg Phe Ser Arg Met Pro Gly Gly Gly Phe Ser Thr Gly Pro
 145 150 155 160
 Gly Asp Thr Phe Glu Gly Glu Tyr Gln Arg Lys Asp Glu Gln Arg Asp
 165 170 175
 Arg Leu Asp His Lys Asp Asp Arg
 180 185

<210> 7178

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7178

Lys Ala Ile Pro Ile Ser Gln Gly Thr Ser Arg Lys Thr Ala Cys Gly
 1 5 10 15
 Pro Ala Ser Ser Ile Thr Asp Asn Asp Phe Leu Lys Gly Glu Leu Ser
 20 25 30
 Met Ser Ile Arg Pro Leu His Asp Arg Val Ile Val Lys Arg Lys Glu

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<210> 7179
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<210> 7180
<211> 553
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (381)

<400> 7180															
Gly 1	Asn	Lys	Asn	Met 5	Ala	Ala	Lys	Asp	Val 10	Lys	Phe	Gly	Asn	Asp 15	Ala
Arg	Val	Lys	Met 20	Leu	Arg	Gly	Val	Asn 25	Val	Leu	Ala	Asp	Ala 30	Val	Lys
Val	Thr	Leu	Gly 35	Pro	Lys	Gly	Arg	Asn 40	Val	Val	Leu	Asp 45	Lys	Ser	Phe
Gly	Ala 50	Pro	Thr	Ile	Thr	Lys 55	Asp	Gly	Val	Ser	Val 60	Ala	Arg	Glu	Ile
Glu 65	Leu	Glu	Asp	Lys 70	Phe	Glu	Asn	Met	Gly 75	Ala	Gln	Met	Val	Lys 80	Glu
Val	Ala	Ser	Lys 85	Ala	Asn	Asp	Ala	Ala 90	Gly	Asp	Gly	Thr	Thr 95	Thr	Ala
Thr	Val	Leu	Ala 100	Gln	Ala	Ile	Ile	Thr 105	Glu	Gly	Leu	Lys	Ala 110	Val	Ala
Ala	Gly	Met	Asn 115	Pro	Met	Asp	Leu	Lys 120	Arg	Gly	Ile	Asp	Lys 125	Ala	Val
Ala	Ser 130	Ala	Val	Glu	Glu	Leu	Lys	Ala 135	Leu	Ser	Val 140	Pro	Cys	Ser	Asp
Ser 145	Lys	Ala	Ile	Ala 150	Gln	Val	Gly	Thr	Ile	Ser 155	Ala	Asn	Ser	Asp	Glu 160

Thr Val Gly Lys Leu Ile Ala Glu Ala Met Asp Lys Val Gly Lys Glu
 165 170 175
 Gly Val Ile Thr Val Glu Asp Gly Thr Gly Leu Glu Asp Glu Leu Asp
 180 185 190
 Val Val Glu Gly Met Gln Phe Asp Arg Gly Tyr Leu Ser Pro Tyr Phe
 195 200 205
 Ile Asn Lys Pro Glu Thr Gly Ala Val Glu Leu Glu Ser Pro Phe Ile
 210 215 220
 Leu Leu Ala Asp Lys Lys Ile Ser Asn Ile Arg Glu Met Leu Pro Val
 225 230 235 240
 Leu Glu Ala Val Ala Lys Ala Gly Lys Pro Leu Val Ile Ile Ala Glu
 245 250 255
 Asp Val Glu Gly Glu Ala Leu Ala Thr Leu Val Val Asn Thr Met Arg
 260 265 270
 Gly Ile Val Lys Val Ala Ala Val Lys Ala Pro Gly Phe Gly Asp Arg
 275 280 285
 Arg Lys Ala Met Leu Gln Asp Ile Ala Thr Leu Thr Gly Gly Thr Val
 290 295 300
 Ile Ser Glu Glu Ile Gly Met Glu Leu Glu Lys Ala Thr Leu Glu Asp
 305 310 315 320
 Leu Gly Gln Ala Lys Arg Val Val Ile Asn Lys Asp Thr Thr Thr Ile
 325 330 335
 Ile Asp Gly Val Gly Glu Glu Ala Ala Ile Gln Gly Arg Val Gly Gln
 340 345 350
 Ile Arg Lys Gln Ile Glu Glu Ala Thr Ser Asp Tyr Asp Arg Glu Lys
 355 360 365
 Leu Gln Glu Arg Val Ala Lys Leu Ala Gly Gly Val Xaa Val Ile Lys
 370 375 380
 Val Gly Ala Ala Thr Glu Val Glu Met Lys Glu Lys Lys Ala Arg Val
 385 390 395 400
 Asp Asp Ala Leu His Ala Thr Arg Ala Val Glu Glu Gly Val Val
 405 410 415
 Ala Gly Gly Gly Val Ala Leu Val Arg Val Ala Ala Lys Leu Ala Gly
 420 425 430
 Leu Thr Ala Gln Asn Glu Asp Gln Asn Val Gly Ile Lys Val Ala Leu
 435 440 445
 Arg Ala Met Glu Ala Pro Leu Arg Gln Ile Val Ser Asn Ala Gly Glu
 450 455 460
 Glu Pro Ser Val Val Ala Asn Lys Val Lys Ala Gly Glu Gly Asn Tyr
 465 470 475 480
 Gly Tyr Asn Ala Ala Thr Glu Glu Tyr Gly Asn Met Ile Asp Phe Gly
 485 490 495
 Ile Leu Asp Pro Thr Lys Val Thr Arg Ser Ala Leu Gln Tyr Ala Ala
 500 505 510
 Ser Val Ala Gly Leu Met Ile Thr Thr Glu Cys Met Val Thr Asp Leu
 515 520 525
 Pro Lys Gly Asp Ala Pro Asp Leu Gly Ala Ala Gly Gly Met Gly Gly
 530 535 540
 Met Gly Gly Met Gly Gly Met Met
 545 550

<210> 7181

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 7181

Val Lys Glu Pro Asp Met Ser Trp Ile Val Leu Val Ile Ala Gly Leu
 1 5 10 15
 Leu Glu Val Val Trp Ala Ile Gly Leu Lys Tyr Thr His Gly Phe Thr
 20 25 30

Arg	Leu	Thr	Pro	Ser	Val	Ile	Thr	Ile	Ala	Ala	Met	Ile	Val	Ser	Ile
		35					40					45			
Val	Met	Leu	Ser	Trp	Ala	Met	Arg	Ser	Leu	Pro	Val	Gly	Thr	Ala	Tyr
	50					55				60					
Ala	Val	Trp	Thr	Gly	Ile	Gly	Ala	Val	Gly	Ala	Ala	Ile	Thr	Gly	Ile
65					70					75					80
Leu	Leu	Leu	Gly	Glu	Ser	Ala	Ser	Leu	Ala	Arg	Ile	Ala	Ser	Leu	Ala
				85					90					95	
Leu	Ile	Val	Ala	Gly	Ile	Ile	Gly	Leu	Lys	Leu	Ser	Thr	His		
			100					105					110		

<210> 7182

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 7182

Met	Ser	Gly	Leu	Arg	Gln	Glu	Leu	Gly	Leu	Ala	Gln	Gly	Ile	Gly	Leu
1				5					10					15	
Leu	Ser	Thr	Ser	Leu	Leu	Gly	Thr	Gly	Val	Phe	Ala	Val	Pro	Ala	Leu
			20					25					30		
Ala	Ala	Leu	Val	Ala	Gly	Asn	Asn	Ser	Leu	Trp	Ala	Trp	Pro	Val	Leu
		35				40						45			
Ile	Val	Leu	Val	Phe	Pro	Val	Ala	Ile	Val	Phe	Ala	Ile	Leu	Gly	Arg
	50					55					60				
His	Phe	Pro	Ser	Ala	Gly	Gly	Val	Thr	His	Phe	Val	Gly	Met	Ala	Phe
65					70					75					80
Gly	Pro	Arg	Met	Glu	Arg	Val	Thr	Gly	Trp	Leu	Phe	Leu	Ser	Val	Ile
				85					90					95	
Pro	Val	Gly	Leu	Pro	Ala	Ala	Leu	His	Ile	Ala	Thr	Gly	Phe	Gly	Gln
			100					105						110	
Ala	Leu	Phe	Gly	Trp	His	Asp	Glu	Gln	Leu	Leu	Leu	Ala	Glu	Ile	Gly
		115					120					125			
Thr	Leu	Ala	Ile	Val	Trp	Trp	Val	Gly	Ser	Arg	Gly	Ala	Ser	Ser	Ser
	130					135						140			
Ala	Asn	Leu	Gln	Thr	Leu	Val	Ala	Val	Leu	Ile	Val	Ala	Leu	Ile	Val
145					150					155					160
Ala	Ile	Trp	Phe	Ala	Gly	Asp	Ile	Thr	Val	Ala	Asp	Ile	Pro	Phe	Pro
				165					170					175	
Ala	Ile	Asn	Asp	Ile	Asp	His	Ala	Gln	Leu	Phe	Ala	Ala	Leu	Ser	Val
		180					185						190		
Met	Phe	Trp	Cys	Phe	Val	Gly	Leu	Glu	Ala	Phe	Ala	His	Leu	Ala	Ser
	195						200					205			
Glu	Phe	Lys	Gln	Pro	Glu	Arg	Asp	Phe	Pro	Arg	Ala	Leu	Met	Ile	Gly
	210					215					220				
Leu	Leu	Leu	Ala	Gly	Thr	Val	Tyr	Trp	Ala	Cys	Thr	Val	Leu	Val	Leu
225					230					235					240
His	Phe	Asn	Ala	Phe	Ser	Glu	Glu	Lys	Ala	Ala	Ala	Ala	Ser	Leu	Pro
				245					250					255	
Gly	Ile	Val	Val	Gln	Leu	Phe	Gly	Val	Lys	Ala	Leu	Trp	Val	Ala	Cys
		260					265						270		
Val	Ile	Gly	Tyr	Leu	Ala	Cys	Phe	Ala	Ser	Leu	Asn	Ile	Tyr	Ile	Gln
		275					280					285			
Asn	Phe	Ala	Arg	Leu	Val	Trp	Ser	Gln	Ala	Leu	Tyr	Lys	Pro	Asp	Ser
	290					295					300				
Pro	Leu	Ser	Arg	Leu	Ser	Lys	Arg	Gln	Leu	Pro	Val	Asn	Ala	Leu	Asn
305					310					315					320
Thr	Val	Leu	Gly	Cys	Cys	Val	Val	Asn	Ser	Leu	Ala	Ile	Tyr	Leu	Leu
				325					330					335	
Asp	Ile	Asn	Leu	Asp	Ala	Leu	Ile	Val	Tyr	Ala	Asn	Gly	Ile	Phe	Ile
			340					345					350		

Met	Ile	Tyr	Leu	Leu	Cys	Met	Leu	Ala	Gly	Cys	Arg	Leu	Leu	Lys	Gly
		355					360					365			
Arg	Phe	Lys	Ala	Leu	Ala	Ala	Val	Gly	Cys	Val	Leu	Cys	Leu	Met	Leu
	370					375					380				
Leu	Ala	Met	Val	Gly	Trp	Lys	Ser	Val	Tyr	Ala	Ile	Val	Met	Leu	Ala
385					390					395					400
Gly	Leu	Trp	Val	Phe	Leu	Pro	Lys	Arg	Gln	Ala	Pro	Gln	Ala	Arg	
			405						410					415	

<210> 7183

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 7183

Ser	Ser	Val	Ile	Lys	Tyr	Ser	Lys	Pro	His	Ile	Tyr	Cys	Val	Phe	Ser
1			5					10						15	
Thr	Ile	His	Arg	Gln	Leu	Glu	Lys	Lys	Val	His	Met	Leu	Asn	Asn	Ile
		20					25						30		
Arg	Ile	Glu	Glu	Asp	Leu	Leu	Gly	Thr	Arg	Glu	Val	Pro	Ala	Asp	Ala
	35						40					45			
Tyr	Tyr	Gly	Val	His	Thr	Leu	Arg	Ala	Ile	Glu	Asn	Phe	Tyr	Ile	Ser
	50					55					60				
Asn	Ser	Lys	Ile	Ser	Asp	Ile	Pro	Glu	Phe	Val	Arg	Gly	Met	Val	Met
65				70					75						80
Val	Lys	Lys	Ala	Ala	Ala	Leu	Ala	Asn	Lys	Glu	Leu	Gln	Thr	Ile	Pro
			85					90						95	
Lys	Ser	Ala	Ala	Asn	Ala	Ile	Ile	Ala	Ala	Cys	Asp	Glu	Val	Leu	Asn
		100						105					110		
Asn	Gly	Lys	Cys	Met	Asp	Gln	Phe	Pro	Val	Asp	Val	Tyr	Gln	Gly	Gly
	115					120						125			
Ala	Gly	Thr	Ser	Val	Asn	Met	Asn	Thr	Asn	Glu	Val	Leu	Ala	Asn	Ile
	130					135					140				
Gly	Leu	Glu	Leu	Met	Gly	His	Gln	Lys	Gly	Glu	Tyr	Gln	Tyr	Leu	Asn
145				150						155					160
Pro	Asn	Asp	His	Val	Asn	Lys	Cys	Gln	Ser	Thr	Asn	Asp	Ala	Tyr	Pro
			165					170						175	
Thr	Gly	Phe	Arg	Ile	Ala	Val	Tyr	Ala	Ser	Val	Val	Lys	Leu	Val	Asp
		180						185					190		
Ala	Ile	Asn	Gln	Leu	Gly	Asp	Gly	Phe	Gln	Arg	Lys	Ala	Val	Glu	Phe
		195					200					205			
Gln	Asp	Ile	Leu	Lys	Met	Gly	Arg	Thr	Gln	Leu	Gln	Asp	Ala	Val	Pro
	210					215					220				
Met	Thr	Leu	Gly	Gln	Glu	Phe	His	Ala	Phe	Asn	Val	Leu	Leu	Asn	Glu
225				230						235					240
Glu	Thr	Lys	Asn	Leu	Leu	Arg	Thr	Ser	Glu	Leu	Leu	Leu	Glu	Val	Asn
			245						250					255	
Leu	Gly	Ala	Thr	Ala	Ile	Gly	Thr	Arg	Leu	Asn	Thr	Pro	Asp	Gly	Tyr
		260						265					270		
Gln	Gln	Leu	Ala	Val	Gln	Lys	Leu	Ala	Glu	Val	Ser	Asn	Leu	Pro	Val
		275					280					285			
Val	Pro	Ala	Glu	Asp	Leu	Ile	Glu	Ala	Thr	Ser	Asp	Cys	Gly	Ala	Tyr
	290					295					300				
Val	Met	Val	His	Ser	Ala	Leu	Lys	Arg	Leu	Ala	Val	Lys	Leu	Ser	Lys
305				310						315					320
Ile	Cys	Asn	Asp	Leu	Arg	Leu	Leu	Ser	Ser	Gly	Pro	Arg	Ala	Gly	Leu
			325						330					335	
Asn	Glu	Ile	Asn	Leu	Pro	Glu	Leu	Gln	Ala	Gly	Ser	Ser	Ile	Met	Pro
		340						345					350		
Ala	Lys	Val	Asn	Pro	Val	Val	Pro	Glu	Val	Val	Asn	Gln	Val	Cys	Phe
		355					360					365			

Lys Val Ile Gly Asn Asp Thr Thr Val Thr Met Ala Ser Glu Ala Gly
 370 375 380
 Gln Leu Gln Leu Asn Val Met Glu Pro Val Ile Gly Gln Ala Met Phe
 385 390 395 400
 Glu Ser Ile His Ile Leu Thr Asn Ala Cys Tyr Asn Leu Leu Glu Lys
 405 410 415
 Cys Ile Asn Gly Ile Thr Ala Asn Lys Glu Val Cys Glu Gly Tyr Val
 420 425 430
 Tyr Asn Ser Ile Gly Ile Val Thr Tyr Leu Asn Pro Phe Ile Gly His
 435 440 445
 His Asn Gly Asp Ile Val Gly Lys Ile Cys Ala Glu Thr Gly Lys Ser
 450 455 460
 Val Arg Glu Val Val Leu Glu Arg Gly Leu Leu Thr Glu Ala Glu Leu
 465 470 475 480
 Asp Asp Ile Phe Ser Ala Gln Asn Leu Met His Pro Ala Tyr Lys Ala
 485 490 495
 Lys Arg Tyr Thr Asp Glu Ser Glu Gln
 500 505

<210> 7184

<211> 574

<212> PRT

<213> Enterobacter cloacae

<400> 7184

Arg Leu Ser Leu Met Ala Gln Arg Phe Ile Thr Leu Ile Leu Leu Leu
 1 5 10 15
 Cys Ser Thr Ser Val Phe Ala Gly Leu Phe Asp Ala Pro Gly Arg Ser
 20 25 30
 Asn Phe Ile Pro Ala Asp Gln Ala Phe Val Phe Asp Phe Gln Gln Asn
 35 40 45
 Gln His Asp Leu Ser Leu Thr Trp Gln Val Lys Glu Gly Tyr Tyr Leu
 50 55 60
 Tyr Arg Lys Gln Val Ser Ile Thr Pro Thr Lys Ala Asn Val Gly Ala
 65 70 75 80
 Leu Gln Met Pro Ala Gly Val Trp His Glu Asp Glu Phe Tyr Gly Lys
 85 90 95
 Ser Glu Ile Tyr Arg Gln Arg Leu Ser Val Pro Val Thr Val Asn His
 100 105 110
 Ala Asp Lys Gly Ala Thr Leu Thr Val Thr Tyr Gln Gly Cys Ala Asp
 115 120 125
 Ala Gly Phe Cys Tyr Pro Pro Glu Thr Lys Val Val Pro Leu Ser Glu
 130 135 140
 Val Lys Gly Ala Ala Ser Pro Leu Pro Ser Gly Glu Arg Ala Arg Met
 145 150 155 160
 Lys Gly Glu Gly Ala Gly Glu Ala Thr Ser Asp Leu Pro Phe Ser Ala
 165 170 175
 Leu Trp Ala Leu Leu Ile Gly Ile Gly Ile Ala Phe Thr Pro Cys Val
 180 185 190
 Leu Pro Met Tyr Pro Leu Ile Ser Gly Ile Val Leu Gly Gly Lys Gln
 195 200 205
 Arg Leu Ser Thr Ala Arg Ala Leu Leu Leu Ala Phe Ile Tyr Val Gln
 210 215 220
 Gly Met Ala Leu Thr Tyr Thr Ala Leu Gly Leu Val Val Ala Ala Ala
 225 230 235 240
 Gly Leu Gln Phe Gln Ala Ala Leu Gln His Pro Tyr Val Leu Ile Gly
 245 250 255
 Leu Ser Ala Val Phe Ile Leu Leu Ala Leu Ser Met Phe Gly Leu Phe
 260 265 270
 Thr Leu Gln Leu Pro Ser Ser Leu Gln Thr Arg Leu Thr Leu Met Ser
 275 280 285

Asn	Arg	Gln	Gln	Gly	Gly	Ser	Ala	Gly	Gly	Val	Phe	Ala	Met	Gly	Ala
	290					295					300				
Ile	Ala	Gly	Leu	Ile	Cys	Ser	Pro	Cys	Thr	Thr	Ala	Pro	Leu	Ser	Ala
305					310					315					320
Ile	Leu	Leu	Tyr	Ile	Ala	Gln	Ser	Gly	Asn	Leu	Trp	Leu	Gly	Gly	Gly
				325					330					335	
Thr	Leu	Tyr	Leu	Tyr	Ala	Leu	Gly	Met	Gly	Leu	Pro	Leu	Ile	Leu	Val
			340					345					350		
Thr	Val	Phe	Gly	Asn	Arg	Leu	Leu	Pro	Lys	Ser	Gly	Pro	Trp	Met	Glu
		355					360					365			
Thr	Val	Lys	Thr	Ala	Phe	Gly	Phe	Val	Ile	Leu	Ala	Leu	Pro	Val	Phe
	370					375					380				
Leu	Leu	Glu	Arg	Ile	Ile	Gly	Asp	Val	Trp	Gly	Thr	Arg	Leu	Trp	Ala
385					390					395					400
Met	Leu	Gly	Val	Ala	Phe	Phe	Ser	Trp	Ala	Phe	Ile	Val	Ser	Leu	Gly
			405						410					415	
Ala	Lys	Lys	Pro	Trp	Met	Arg	Leu	Leu	Gln	Ile	Leu	Leu	Leu	Ala	Ala
			420					425					430		
Ala	Leu	Val	Ser	Val	Arg	Pro	Leu	Gln	Asp	Trp	Ala	Phe	Gly	Thr	Pro
		435					440					445			
Ala	Gly	Gln	Thr	Gln	Ala	His	Leu	Asn	Phe	Ile	Gln	Ile	Lys	Asn	Val
	450					455					460				
Asp	Asp	Leu	Asn	His	Ala	Leu	Ala	Gln	Ala	Lys	Gly	Lys	Pro	Val	Met
465					470					475					480
Leu	Asp	Leu	Tyr	Ala	Asp	Trp	Cys	Val	Ala	Cys	Lys	Glu	Phe	Glu	Lys
			485						490					495	
Tyr	Thr	Phe	Ser	Asp	Pro	Gln	Val	Gln	His	Ala	Leu	Ser	Asp	Thr	Val
			500					505					510		
Leu	Leu	Gln	Ala	Asn	Val	Thr	Ala	Asn	Ser	Thr	Gln	Asp	Lys	Ala	Leu
		515					520					525			
Leu	Lys	Gln	Leu	Lys	Val	Leu	Gly	Leu	Pro	Thr	Ile	Leu	Phe	Phe	Asn
	530					535					540				
Glu	Gln	Gly	Glu	Glu	Gln	Pro	Thr	Gln	Arg	Val	Thr	Gly	Phe	Met	Asp
545					550					555					560
Ala	Thr	Ala	Phe	Asn	Ala	His	Leu	Arg	Asn	Arg	Gln	Pro			
				565					570						

<210> 7185

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7185

Leu	Ser	His	Lys	Met	Ala	His	Ile	Val	Thr	Leu	Asn	Thr	Pro	Ser	Arg
1				5					10					15	
Glu	Asp	Trp	Leu	Ser	Gln	Leu	Ala	Asp	Val	Ile	Thr	Ser	Pro	Asp	Glu
		20						25					30		
Leu	Leu	Arg	Leu	Leu	Asp	Leu	Glu	Gln	His	Glu	Ala	Leu	Arg	Ala	Gly
		35					40					45			
Arg	Glu	Ala	Lys	Arg	Leu	Phe	Ala	Leu	Arg	Val	Pro	Arg	Ala	Phe	Val
	50					55					60				
Ala	Arg	Met	Glu	Lys	Gly	Asn	Pro	Asp	Asp	Pro	Leu	Leu	Lys	Gln	Thr
65					70					75					80
Leu	Thr	Ser	Gln	Asp	Glu	Phe	Ile	Thr	Ala	Pro	Gly	Tyr	Ser	Thr	Asp
			85						90					95	
Pro	Leu	Gln	Glu	Gln	Asn	Ser	Val	Val	Pro	Gly	Leu	Leu	His	Lys	Tyr
		100						105					110		
Arg	Asn	Arg	Ala	Leu	Leu	Leu	Val	Lys	Gly	Gly	Cys	Ala	Val	Asn	Cys
		115					120					125			
Arg	Tyr	Cys	Phe	Arg	Arg	His	Phe	Pro	Tyr	Ala	Glu	Asn	Gln	Gly	Asn
	130					135					140				

Lys Arg Asn Trp Gln Val Ala Leu Asp Tyr Ile Thr Ala His Pro Glu
 145 150 155 160
 Leu Asp Glu Ile Ile Phe Ser Gly Gly Asp Pro Leu Met Ala Lys Asp
 165 170 175
 His Glu Leu Asp Trp Leu Leu Thr Gln Leu Glu Thr Ile Pro His Ile
 180 185 190
 Lys Arg Leu Arg Ile His Ser Arg Leu Pro Ile Val Ile Pro Ala Arg
 195 200 205
 Ile Thr Asp Ala Leu Val Thr Arg Leu Glu Gln Ser Arg Leu Gln Val
 210 215 220
 Leu Leu Val Asn His Ile Asn His Ala Asn Glu Ile Asp Ala Asp Phe
 225 230 235 240
 Arg Glu Ala Met Ala Arg Met Arg Lys Ala Gly Val Thr Leu Leu Asn
 245 250 255
 Gln Ser Val Leu Leu Arg Gly Val Asn Asp Ser Ala Arg Val Leu Ala
 260 265 270
 Asp Leu Ser Asn Ala Leu Phe Asp Ala Gly Val Met Pro Tyr Tyr Leu
 275 280 285
 His Val Leu Asp Arg Val Gln Gly Ala Ala His Phe Met Val Thr Asp
 290 295 300
 Glu Glu Ala Arg Lys Ile Met Arg Glu Leu Leu Thr Leu Val Ser Gly
 305 310 315 320
 Tyr Met Val Pro Lys Leu Ala Arg Glu Ile Gly Gly Glu Pro Ser Lys
 325 330 335
 Thr Pro Leu Asp Leu Gln Leu Arg Gln Gln
 340 345

<210> 7186

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 7186

Arg His Tyr Tyr Gln Leu Phe Phe Phe Arg Arg Cys Thr Leu Tyr Leu
 1 5 10 15
 Tyr Tyr Arg Pro Gly Asn His Ala Ala Cys Arg His Ser Gly Val Gln
 20 25 30
 Ile Cys Trp Arg Glu Leu Ser Ala Thr Val Asp Arg Pro His Gly Ser
 35 40 45
 Ser Leu Arg Ser Gly Gly Lys Met Ile Ala Gln Ser Arg Lys Asn Ile
 50 55 60
 Met Asp Leu Phe Ile Asp Gly Ala Arg Arg Gly Phe Thr Ile Ala Thr
 65 70 75 80
 Thr Ser Leu Leu Pro Asn Val Val Met Ala Phe Val Ile Ile Gln Ala
 85 90 95
 Leu Lys Val Thr Gly Leu Leu Asp Ile Val Gly Arg Val Cys Glu Pro
 100 105 110
 Ile Met Ala Leu Trp Gly Leu Pro Gly Ala Ala Ala Thr Val Leu Leu
 115 120 125
 Ala Ser Val Met Ser Met Gly Gly Gly Val Gly Val Cys Ala Ser Leu
 130 135 140
 Val Ala Ala Gly Thr Leu Asn Gly His Asp Ala Thr Ile Leu Leu Pro
 145 150 155 160
 Ala Ile Tyr Leu Met Gly Asn Pro Val Gln Asn Thr Gly Arg Cys Leu
 165 170 175
 Gly Thr Ala Gly Val Asn Pro Lys Tyr Tyr Pro His Ile Ile Ala Val
 180 185 190
 Cys Val Ile Asn Ala Leu Leu Ser Met Trp Val Met Gln Leu Leu Phe
 195 200 205

<210> 7187
 <211> 558
 <212> PRT
 <213> Enterobacter cloacae

<400> 7187

Val	Arg	Arg	Val	Ala	Phe	Arg	Gln	Val	Gly	His	His	Ala	Leu	Gly	Arg
1				5					10					15	
Asp	His	Gln	Ala	Ser	Tyr	Arg	Cys	Arg	Val	Leu	Gln	Ser	Arg	Thr	Gly
		20					25					30			
His	Phe	Ser	Trp	Ile	Gln	Asp	Thr	Glu	Val	Asp	His	Val	Ala	Val	Phe
		35					40				45				
Phe	Ser	Cys	Arg	Val	Val	Thr	Val	Val	Thr	Phe	Thr	Arg	Phe	His	Leu
	50					55					60				
Val	Arg	Asn	His	Arg	Arg	Leu	Phe	Thr	Gly	Val	Gly	His	Asp	Leu	Thr
65				70					75					80	
Gln	Arg	Ser	Phe	His	Cys	Ala	Gln	Arg	Asn	Phe	Asp	Thr	His	Val	Leu
				85					90					95	
Val	Phe	Val	Leu	Ser	Ser	Gln	Ala	Ser	Gln	Phe	Ser	Gly	Tyr	Thr	His
		100						105					110		
Gln	Arg	Asp	Thr	Thr	Thr	Ser	Asn	His	Ala	Phe	Phe	Tyr	Arg	Ser	Thr
		115					120					125			
Gly	Arg	Val	Gln	Gly	Val	Val	Asn	Ala	Cys	Phe	Leu	Leu	Phe	His	Phe
	130					135					140				
Asn	Phe	Gly	Ser	Arg	Thr	Asp	Phe	Asp	Tyr	Arg	Tyr	Ala	Thr	Cys	Gln
145					150				155					160	
Phe	Arg	Tyr	Ala	Leu	Leu	Glu	Phe	Phe	Thr	Val	Val	Ile	Gly	Ser	Cys
				165					170					175	
Phe	Phe	Asp	Leu	Leu	Thr	Asp	Leu	Thr	Asn	Thr	Ala	Leu	Asn	Ser	Gly
		180						185					190		
Phe	Phe	Thr	His	Thr	Val	Asp	Asp	Gly	Gly	Gly	Val	Phe	Val	Asp	His
		195					200					205			
Asn	Ala	Phe	Arg	Leu	Ala	Gln	Val	Phe	Gln	Ser	Arg	Phe	Phe	Gln	Leu
	210					215					220				
His	Thr	Asp	Leu	Phe	Gly	Asp	His	Gly	Thr	Ala	Gly	Gln	Gly	Ser	Asp
225					230				235					240	
Ile	Leu	Glu	His	Arg	Leu	Thr	Thr	Ile	Ala	Glu	Thr	Arg	Cys	Phe	Asn
				245					250					255	
Arg	Cys	His	Phe	His	Asp	Ala	Thr	His	Gly	Val	Asn	His	Gln	Gly	Arg
			260					265					270		
Gln	Arg	Phe	Ala	Phe	Asn	Val	Phe	Ser	Asn	Asp	Tyr	Gln	Arg	Leu	Ala
		275					280					285			
Cys	Phe	Arg	Asp	Ser	Phe	Gln	His	Trp	Gln	His	Phe	Ala	Asp	Val	Gly
	290					295					300				
Asp	Phe	Leu	Val	Ser	Gln	Gln	Asp	Glu	Arg	Ala	Phe	Gln	Leu	Asn	Ser
305					310				315					320	
Ala	Ser	Phe	Trp	Leu	Val	Asp	Glu	Val	Trp	Gly	Gln	Val	Thr	Ala	Val
				325					330					335	
Glu	Leu	His	Thr	Phe	Asn	His	Val	Gln	Phe	Val	Phe	Gln	Thr	Ser	Thr
			340					345					350		
Val	Phe	Asn	Gly	Asp	His	Ala	Phe	Phe	Thr	Asp	Phe	Ile	His	Arg	Phe
		355					360					365			
Ser	Asp	Gln	Phe	Thr	Tyr	Gly	Phe	Val	Gly	Val	Ser	Gly	Asp	Ser	Thr
	370					375					380				
Asn	Leu	Ser	Asn	Gly	Phe	Arg	Val	Arg	Ala	Arg	Tyr	Gly	Gln	Arg	Phe
385					390				395					400	
Gln	Phe	Phe	Asn	Ser	Gly	Ser	Asp	Gly	Phe	Val	Asp	Thr	Thr	Phe	Gln
				405					410					415	
Ile	His	Trp	Val	His	Ala	Arg	Ser	Asn	Gly	Phe	Gln	Ala	Phe	Gly	Asp
			420					425					430		

Asp	Arg	Leu	Arg	Gln	Tyr	Gly	Arg	Gly	Gly	Gly	Thr	Val	Thr	Gly	Ser
		435						440				445			
Val	Val	Arg	Phe	Arg	Gly	Asn	Phe	Phe	His	His	Leu	Cys	Ala	His	Val
		450				455					460				
Phe	Glu	Leu	Val	Phe	Gln	Leu	Asp	Phe	Thr	Cys	Asn	Arg	Asn	Thr	Ile
465					470					475					480
Phe	Gly	Asp	Gly	Trp	Arg	Ala	Glu	Gly	Phe	Val	Gln	His	Tyr	Val	Thr
			485						490						495
Ala	Phe	Arg	Ala	Glu	Ser	Asp	Phe	His	Cys	Val	Cys	Gln	Tyr	Val	Tyr
			500					505					510		
Ala	Ala	Glu	His	Phe	Tyr	Thr	Ser	Val	Val	Thr	Glu	Phe	Tyr	Val	Phe
		515					520					525			
Ser	Cys	His	Val	Leu	Ile	Ser	Ser	Asn	Ser	Tyr	Ser	Phe	Arg	Ala	Leu
	530					535					540				
Ile	Thr	Leu	Gln	Gln	Leu	Pro	Glu	Cys	Arg	Ser	Arg	Thr			
545					550					555					

<210> 7188

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7188

Gly	Gly	Arg	Leu	Val	Asn	Thr	Pro	Asp	Ala	Val	Val	Val	Leu	Cys	Thr
1			5						10				15		
Ala	Pro	Asp	Glu	Ala	Ser	Ala	Gln	Asp	Leu	Ala	Ala	Lys	Val	Leu	Ala
		20						25					30		
Glu	Lys	Leu	Ala	Ala	Cys	Val	Thr	Leu	Leu	Pro	Gly	Ala	Thr	Ser	Leu
		35					40					45			
Tyr	Tyr	Trp	Glu	Gly	Lys	Leu	Glu	Gln	Glu	Tyr	Glu	Val	Gln	Met	Leu
	50					55					60				
Leu	Lys	Thr	Asn	Leu	Thr	Asn	Gln	Gln	Ala	Leu	Leu	Asp	Cys	Leu	Lys
65				70						75					80
Ser	His	His	Pro	Tyr	Gln	Thr	Pro	Glu	Leu	Leu	Val	Leu	Pro	Val	Val
			85					90						95	
His	Gly	Asp	Asn	Asp	Tyr	Leu	Ser	Trp	Leu	Asn	Ala	Ser	Leu	Arg	
			100					105					110		

<210> 7189

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7189

Pro	Gly	Leu	Trp	Thr	Arg	Arg	His	Ser	Thr	Arg	Ile	Cys	Ala	Ile	Ala
1			5						10					15	
Asn	Arg	Lys	Pro	His	Phe	Arg	Arg	Asp	Lys	Pro	Leu	Gly	Ile	Ala	Glu
		20						25					30		
Glu	Ile	Thr	Val	Gln	Arg	Glu	Asp	Val	Leu	Gly	Gln	Ala	Leu	Gln	Leu
		35					40					45			
Leu	Glu	Ile	Gln	Gly	Ile	Ala	Ser	Thr	Thr	Leu	Glu	Met	Val	Ala	Asp
	50					55					60				
Arg	Ile	Asp	Tyr	Pro	Leu	Asp	Glu	Leu	Arg	Arg	Phe	Trp	Pro	Asp	Lys
65					70				75						80
Glu	Ala	Leu	Leu	Tyr	Asp	Ala	Leu	Arg	Tyr	Leu	Ser	Gln	Gln	Val	Asp
			85					90						95	
Ile	Trp	Arg	Arg	Gln	Leu	Met	Leu	Asn	Glu	Glu	Leu	Thr	Thr	Glu	Gln
			100					105					110		
Lys	Leu	Leu	Ala	Arg	Tyr	Thr	Ala	Leu	Thr	Glu	Cys	Val	Thr	Asn	Asn
		115					120					125			
Arg	Tyr	Pro	Gly	Cys	Leu	Phe	Ile	Ala	Ala	Cys	Thr	Tyr	Tyr	Pro	Asp

130	135	140
Pro Gly His Pro Ile His Gln Leu Ala Asp Gln Gln Lys Arg Ala Ala		
145	150	155
His Glu Phe Thr His Glu Leu Leu Thr Thr Leu Glu Val Asp Asp Pro		160
	165	170
Ala Met Val Ala Lys Gln Met Glu Leu Val Leu Glu Gly Cys Leu Ser		175
	180	185
Arg Met Leu Val Asn Arg Ser Gln Ala Asp Val Asp Thr Ala His Arg		190
	195	200
Leu Ala Glu Asp Ile Leu Arg Phe Ala Gln Cys Arg Met Gly Gly Ala		205
	210	215
Leu Thr		220
225		

<210> 7190

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7190

Glu Arg Glu Glu Glu Lys Lys Lys Arg Gly Lys Arg Gly Lys Lys Lys		
1	5	10
Glu Gly Gly Lys Lys Arg Glu Lys Gly Gly Lys Lys Lys Glu Arg Lys		15
	20	25
Glu Gly Lys Gly Glu Glu Gly Glu Gly Gly Lys Gly Gly Gly Lys Arg		30
	35	40
Gly Arg Arg Gly Gly Lys Lys Gly Glu Lys Lys Lys Glu Lys Glu Gly		45
	50	55
Lys Arg Glu Glu Lys Gly Arg Glu Lys Lys Gly Arg Gly Lys Glu Gly		60
65	70	75
Glu Glu Gly Lys Gly Gly Glu Gly Gly Lys Lys Lys Glu Lys Lys		80
	85	90
Gly Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys		95
	100	105
Lys Lys Lys Lys Lys Lys Thr Arg Gln Asn Thr Leu His Asn Leu Pro		110
	115	120
His Phe Pro Cys Cys His Leu His Leu Thr Lys Asn Ser Lys Glu Thr		125
	130	135
Pro Met Arg Ile Leu Pro Val Ile Ala Ala Val Thr Ala Ala Phe Leu		140
145	150	155
Val Val Ala Cys Ser Ser Pro Thr Pro Pro Pro Gly Val Thr Val Val		160
	165	170
Ser Asn Phe Asp Ala Gln Arg Phe Leu Gly Thr Trp Tyr Glu Ile Ala		175
	180	185
Arg Met Asp His Gln Phe Glu Arg Gly Leu Glu Lys Val Thr Val Asn		190
	195	200
Tyr Ser Ala Met Asp Asp Gly Gly Ile Arg Val Ile Asn Arg Gly Tyr		205
	210	215
Asn Pro Asp Arg Gln Met Trp Gln Gln Ser Val Gly Gln Ala Tyr Phe		220
225	230	235
Thr Gly Ala Ser Asn Arg Ala Ala Met Lys Val Ser Phe Ile Gly Pro		240
	245	250
Phe Tyr Gly Gly Tyr Asn Val Ile Ala Leu Asp Arg Glu Tyr Arg His		255
	260	265
Ala Leu Val Cys Gly Pro Asp Arg Asn Tyr Leu Trp Ile Leu Ser Arg		270
	275	280
Thr Pro Thr Ile Pro Ala Glu Met Lys Gln Gln Met Leu Asp Ile Ala		285
	290	295
Thr Arg Gln Gly Phe Asp Val Thr Lys Leu Leu Trp Val Lys Gln Pro		300
305	310	315
His		320

<210> 7191
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 7191

Trp	Gln	Glu	Ala	Lys	Pro	Leu	Ala	Asp	Cys	Glu	Asn	Phe	Met	Phe	Lys
1				5					10					15	
Ile	Leu	Leu	Ile	Asp	Arg	Cys	His	Phe	Thr	Arg	Thr	Gly	Phe	Glu	Ala
			20					25					30		
Trp	Val	Asn	His	Ser	Asp	Leu	Phe	Ser	Gly	His	Phe	Val	Val	Thr	Gly
		35					40					45			
Val	Asn	Asn	Leu	Phe	Leu	Ala	Arg	Glu	His	Ile	Leu	Gln	Trp	Lys	Pro
	50					55					60				
Ala	Leu	Val	Ile	Ala	Asp	Leu	Ser	Gly	Phe	Arg	Gln	Asp	Leu	His	His
65					70					75				80	
Phe	Gln	Gln	Leu	Ser	Ser	Leu	Leu	Ile	Ala	Ser	Glu	Thr	Leu	Pro	Phe
				85					90					95	
Ile	Met	Leu	Gln	Ser	Gly	Gln	Glu	Gln	Glu	Met	Thr	Asp	Tyr	Leu	Ala
			100					105						110	
Gln	Phe	Pro	Ile	Trp	Ser	Ser	Leu	Ser	Lys	Asn	Thr	Asp	Leu	Glu	Lys
		115					120					125			
Leu	Ala	Ala	Val	Ile	Asn	Asp	Ala	Leu	Thr	Ser	Cys	Ala	Ser	Ala	Glu
	130					135					140				
Leu	Pro	Glu	Met	Ala	Ala	Pro	Leu	Leu	Thr	Arg	Gln	Glu	Glu	Arg	Val
145					150					155				160	
Leu	Ser	Leu	Trp	Met	Asp	Gly	Ala	Ser	Asn	Gln	Lys	Ile	Ala	Ser	Asn
				165					170					175	
Leu	Arg	Ile	Asn	Gly	Lys	Thr	Val	Tyr	Thr	Tyr	Lys	Arg	Asn	Ile	Arg
		180						185					190		
Met	Lys	Leu	His	Met	Asp	Thr	Arg	Tyr	Ser	Pro	Phe	Leu	Ser	Leu	Gln
		195					200					205			
Glu	Val	Glu	Asn												
															210

<210> 7192
 <211> 237
 <212> PRT
 <213> Enterobacter cloacae

<400> 7192

Pro	Pro	Ile	Val	Phe	Ser	Asp	Ala	Thr	Tyr	Asn	Phe	Cys	Thr	Arg	Leu
1				5					10					15	
Lys	Lys	Gly	Gly	Phe	Met	Ser	Ala	Ser	Ser	Ser	Gly	Glu	Glu	Lys	Val
			20					25					30		
Thr	Trp	Val	Gly	Tyr	Leu	Ala	Phe	Val	Leu	Thr	Ile	Val	Phe	Phe	Ser
		35					40					45			
Gly	Phe	Phe	Ala	Lys	Ser	Thr	Glu	Trp	Trp	Arg	Val	Leu	Asp	Phe	Thr
	50					55					60				
Val	Leu	Asn	Gly	Ser	Phe	Gly	Pro	Val	Asn	Gly	Ala	Leu	Thr	Phe	Arg
65					70					75				80	
Gly	Glu	Gly	Gly	Thr	Gly	Ala	Lys	Asp	Gly	Phe	Leu	Phe	Ala	Leu	Glu
				85					90					95	
Leu	Ala	Pro	Ser	Val	Ile	Leu	Ser	Leu	Gly	Ile	Ile	Ala	Val	Thr	Glu
			100					105					110		
Gly	Leu	Gly	Gly	Leu	Arg	Ala	Ala	Gln	Gln	Leu	Met	Thr	Pro	Ile	Leu
		115				120						125			
Arg	Pro	Leu	Leu	Gly	Val	Pro	Gly	Ile	Cys	Ser	Leu	Ala	Leu	Ile	Ala
	130					135					140				

Asn	Leu	Gln	Asn	Thr	Asp	Ala	Ala	Ala	Gly	Met	Thr	Lys	Glu	Leu	Thr
145					150					155					160
Asn	Glu	Gly	Ala	Ile	Thr	Asp	His	Glu	Arg	Ala	Ile	Phe	Ala	Thr	Phe
				165					170						175
Gln	Thr	Ser	Gly	Ser	Ala	Ile	Ile	Thr	Asn	Tyr	Phe	Ser	Ser	Gly	Ala
			180					185						190	
Ala	Leu	Phe	Thr	Phe	Ile	Thr	Val	Pro	Val	Ile	Thr	Pro	Leu	Ala	Val
		195					200					205			
Ile	Leu	Val	Phe	Lys	Phe	Val	Gly	Ala	Asn	Phe	Leu	Arg	Leu	Trp	Ile
	210					215					220				
Ala	His	Met	Glu	Val	Arg	Cys	Ala	Gln	Glu	Glu	Lys				
225					230					235					

<210> 7193

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 7193

Cys	Asn	Tyr	Ser	Ser	Glu	Glu	Ile	Lys	Met	Asp	Phe	Ser	Val	Leu	Glu
1				5					10					15	
Pro	His	Leu	Phe	Arg	Asn	Ala	Gln	Leu	Tyr	Ala	Pro	Glu	Asp	Leu	Gly
			20					25					30		
His	Cys	Asp	Leu	Leu	Ile	Ala	Gly	Gly	Lys	Ile	Val	Ala	Val	Glu	Lys
		35					40					45			
Ala	Gly	His	Ala	Thr	Met	Arg	Pro	Asp	Cys	Pro	Glu	Ser	Asp	Leu	Ala
	50					55					60				
Gly	Ala	Val	Val	Cys	Pro	Gly	Phe	Ile	Asp	Gln	His	Val	His	Leu	Ile
65					70					75					80
Gly	Gly	Gly	Gly	Glu	Ala	Gly	Pro	His	Thr	Arg	Thr	Pro	Glu	Val	Arg
				85					90					95	
Leu	Ser	Ala	Leu	Val	Ala	Ala	Gly	Ile	Thr	Ser	Val	Val	Gly	Leu	Leu
			100					105					110		
Gly	Thr	Asp	Gly	Val	Thr	Arg	His	Pro	Glu	Ser	Leu	Leu	Ala	Lys	Thr
		115					120						125		
Arg	Ala	Leu	Glu	His	Glu	Gly	Ile	Ser	Ala	Trp	Met	Leu	Thr	Gly	Ala
	130					135					140				
Tyr	Gly	Leu	Pro	Ser	Pro	Thr	Ile	Thr	Gly	Ser	Ile	Glu	Lys	Asp	Val
145					150					155					160
Ala	Leu	Ile	Asp	Lys	Ile	Ile	Gly	Val	Lys	Cys	Ala	Ile	Ser	Asp	His
			165						170					175	
Arg	Ser	Ser	Ala	Pro	Ala	Asp	Asp	Gln	Leu	Ala	Asn	Met	Ala	Ala	Gln
			180					185					190		
Ser	Arg	Val	Gly	Gly	Leu	Leu	Gly	Ala	Lys	Ala	Gly	Ile	Ser	Val	Phe
		195					200					205			
His	Leu	Gly	Asn	Ser	Pro	Lys	Leu	Leu	Glu	Pro	Leu	Leu	Asn	Ile	Leu
	210					215					220				
Asn	Asn	Ala	Asp	Val	Pro	Arg	Thr	Lys	Leu	Leu	Pro	Thr	His	Val	Asn
225					230					235					240
Arg	Ala	Gln	Ala	Leu	Phe	His	Ala	Ala	Leu	Asp	Tyr	Ala	Arg	Glu	Gly
			245						250					255	
Gly	Tyr	Ile	Asp	Ile	Thr	Thr	Ser	Ile	Ser	Glu	Pro	Ile	Asp	Ala	Ala
		260						265					270		
Thr	Ala	Ile	Ala	Thr	Ala	Arg	Asp	Ala	Gln	Val	Pro	Phe	Asn	Arg	Leu
		275					280					285			
Thr	Leu	Cys	Ser	Asp	Gly	Asn	Gly	Ser	Gln	Pro	Asn	Phe	Asp	Ala	Asn
	290					295					300				
Gly	Asn	Leu	Val	Gly	Ile	Gly	Val	Ala	Gly	Phe	Glu	Ser	Leu	Leu	Asp
305					310					315					320
Thr	Leu	Gln	Gln	Leu	Val	Gly	Arg	Tyr	His	Leu	Pro	Leu	Glu	Glu	Ala
				325					330					335	

Leu Leu Pro Phe Thr Arg Asn Val Ala Glu Phe Leu Gly Leu Glu His
 340 345 350
 Lys Gly Arg Ile Ala Pro Gly Cys Asp Ala Asp Phe Leu Val Leu Thr
 355 360 365
 Asp Asp Leu Lys Ile Arg Glu Val Trp Ala Lys Gly Arg Gln Met Val
 370 375 380
 Arg Glu Gly Val Val Cys Val Lys Gly Thr Phe Glu
 385 390 395

<210> 7194

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7194

Ala Met Ala Leu Glu Ser Glu His Gly Thr Asp Ser Ala Phe Ser Ser
 1 5 10 15
 Ser Thr Ala Glu Ala Thr Ala Leu Ser Ile Pro Arg Phe Arg Ser Ile
 20 25 30
 Gly Phe Met Pro Ala Ala Thr Ala Phe Arg Pro Ser Val Met Ile Ala
 35 40 45
 Cys Ala Ser Thr Val Ala Val Val Val Pro Ser Pro Ala Ala Ser Phe
 50 55 60
 Ala Leu Glu Ala Thr Ser Phe Thr Ile Cys Ala Pro Met Phe Ser Asn
 65 70 75 80
 Leu Ser Ser Ser Ser Ile Ser Arg Ala Thr Glu Thr Pro Ser Leu Val
 85 90 95
 Met Val Gly Ala Pro Lys Asp Leu Ser Ser Thr Thr Leu Arg Pro Phe
 100 105 110
 Gly Pro Arg Val Thr Phe Thr Ala Ser Ala Ser Thr Phe Thr Pro Arg
 115 120 125
 Ser Ile Phe Thr Arg Ala Ser Leu Pro Asn Phe Thr Ser Leu Ala Ala
 130 135 140
 Met Phe Leu Phe Pro Gln Ile Arg Thr Val Phe Val Arg
 145 150 155

<210> 7195

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7195

Ala Arg Gln Val Phe Met Phe Gly Ala Glu Leu Val Ile Val Leu Leu
 1 5 10 15
 Ala Ile Tyr Leu Gly Ala Arg Leu Gly Gly Ile Gly Ile Gly Phe Ala
 20 25 30
 Gly Gly Leu Gly Val Leu Val Leu Thr Leu Ile Phe Gln Ile Lys Pro
 35 40 45
 Gly Ala Ile Pro Phe Asp Val Ile Glu Ile Ile Met Ala Val Ile Ala
 50 55 60
 Ala Ile Ala Ala Met Gln Val Ala Gly Gly Met Asp Tyr Leu Val Ser
 65 70 75 80
 Leu Ala Glu Arg Met Leu Arg Arg His Pro Lys Tyr Ile Thr Phe Leu
 85 90 95
 Ala Pro Leu Val Thr Trp Phe Met Thr Ile Leu Ala Gly Thr Gly His
 100 105 110
 Thr Ala Phe Ser Thr Leu Pro Val Ile Thr Glu Val Ala Lys Glu Gln
 115 120 125
 Gly Ile Arg Pro Ser Arg Pro Leu Ser Ile Ala Val Val Ala Ser Gln
 130 135 140
 Ile Ala Ile Thr Ala Ser Pro Ile Ser Ala Ala Val Val Phe Phe Ala

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<210> 7196
<211> 578
<212> PRT
<213> Enterobacter cloacae
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Arg	His	Val	Ala	Gly	Arg	Lys	Ser	Asp	Gly	Arg	Asp	Arg	Ala	Ala	Ser
1				5					10					15	
Ala	Ser	Gly	Cys	Arg	Pro	Val	Ala	Lys	Met	Pro	Gly	Arg	Val	Arg	Thr
			20					25					30		
Thr	His	Asn	Arg	Lys	Thr	Val	Arg	Val	Ser	Asp	Pro	Ala	Gly	Arg	Asp
		35					40					45			
Thr	Val	Thr	Phe	Lys	Ile	Lys	Lys	His	Asn	Thr	Thr	Thr	Gln	Gln	Gln
	50					55					60				
Ser	Arg	Gly	Thr	Pro	Met	Ser	Met	Ser	Ser	Ile	Pro	Ser	His	Ser	Pro
65					70					75					80
Ser	Gly	Lys	Leu	Tyr	Gly	Trp	Val	Glu	Arg	Ile	Gly	Asn	Lys	Val	Pro
			85						90				95		
His	Pro	Phe	Leu	Leu	Phe	Ile	Tyr	Leu	Ile	Val	Ile	Leu	Met	Val	Ala
			100					105					110		
Thr	Ala	Val	Leu	Ser	Ala	Phe	Glu	Val	Ser	Val	Arg	Ser	Pro	Ala	Asp
		115					120					125			
Gly	Ser	Met	Val	Ala	Val	Lys	Asn	Leu	Leu	Ser	Val	Glu	Gly	Leu	His

130	135	140
Trp Phe Leu Pro Asn Val Ile Lys Asn Phe Ser Gly Phe Ala Pro Leu		
145	150	155
Gly Ala Ile Leu Ala Leu Val Leu Gly Ala Gly Leu Ala Glu Arg Val		
	165	170
Gly Leu Leu Pro Ala Leu Met Val Lys Met Ala Ser His Val Ser Ala		
	180	185
Arg Tyr Ala Ser Tyr Met Val Leu Phe Ile Ala Phe Phe Ser His Ile		
	195	200
Ser Ser Asp Ala Ala Leu Val Ile Met Pro Pro Met Gly Ala Leu Ile		
	210	215
Phe Leu Ala Val Gly Arg His Pro Val Ala Gly Leu Leu Ser Ala Ile		
225	230	235
Ala Gly Val Gly Cys Gly Phe Thr Ala Asn Leu Leu Ile Val Thr Thr		
	245	250
Asp Val Leu Leu Ser Gly Ile Ser Thr Glu Ala Ala Ser Thr Ile Asp		
	260	265
Ala Thr Met His Val Ser Val Ile Asp Asn Trp Tyr Phe Met Ala Ser		
	275	280
Ser Val Ile Val Leu Thr Ile Val Gly Gly Leu Ile Thr Asp Lys Ile		
	290	295
Ile Glu Pro Arg Leu Gly Lys Trp Glu Gly Arg Ser Asp Glu Lys Leu		
305	310	315
Glu Thr Leu Ser Lys Glu Gln Gln Phe Gly Leu Arg Val Ala Gly Ile		
	325	330
Val Ser Leu Ala Phe Ile Ala Val Val Ala Leu Met Val Val Pro Glu		
	340	345
Asn Gly Val Leu Arg Asp Pro Ile Lys His Thr Val Leu Pro Ser Pro		
	355	360
Phe Ile Gln Gly Ile Val Pro Leu Ile Ile Leu Phe Phe Val Val		
	370	375
Ser Leu Ala Tyr Gly Ile Ala Thr Gly Lys Ile Arg Arg Gln Gly Asp		
385	390	395
Leu Pro His Leu Met Ile Glu Pro Met Lys Glu Met Ala Gly Phe Ile		
	405	410
Val Met Val Phe Pro Leu Ala Gln Phe Val Ala Met Phe Asn Trp Ser		
	420	425
Asn Met Gly Lys Phe Met Ala Val Ser Leu Thr Asp Ala Leu Glu Ala		
	435	440
Ala Gly Leu Ser Gly Val Pro Ala Phe Val Gly Leu Ala Leu Leu Ser		
	450	455
Ser Leu Leu Cys Met Phe Ile Ala Ser Gly Ser Ala Ile Trp Ser Ile		
465	470	475
Leu Ala Pro Ile Phe Val Pro Met Phe Met Met Leu Gly Phe His Pro		
	485	490
Ala Phe Ala Gln Ile Leu Phe Arg Val Ala Asp Ser Ser Val Ile Pro		
	500	505
Leu Ala Pro Val Ser Pro Phe Val Pro Leu Phe Leu Gly Phe Leu Gln		
	515	520
Arg Tyr Arg Pro Glu Ala Lys Leu Gly Thr Tyr Tyr Ser Leu Val Leu		
	530	535
Pro Tyr Pro Leu Ile Phe Leu Gly Val Trp Leu Val Met Leu Val Ala		
545	550	555
Trp Tyr Leu Val Gly Leu Pro Ile Gly Pro Gly Val Tyr Pro Arg Leu		
	565	570
		575

Asn

<210> 7197
 <211> 175
 <212> PRT

<213> Enterobacter cloacae

<400> 7197

Gly Val Leu Met Leu Arg Leu Leu Glu Asp Lys Ile Ala Thr Pro Leu
 1 5 10 15
 Gly Pro Leu Trp Val Ile Ala Asp Glu Ala Phe Asn Leu Arg Ala Val
 20 25 30
 Glu Trp Glu Glu His Ser Asp Arg Met Val Glu Leu Leu Asn Ile His
 35 40 45
 Tyr Arg Ala Glu Gly Tyr Glu Arg Val Thr Ala Arg Asn Pro Gly Gly
 50 55 60
 Leu Ser Asp Lys Leu Thr Ala Tyr Phe Glu Gly Asp Leu Ser Ile Ile
 65 70 75 80
 Asn Thr Leu Pro Thr Ala Thr Ala Gly Thr Pro Phe Gln Arg Glu Val
 85 90 95
 Trp Gln Ala Leu Arg Asn Ile Pro Cys Gly Gln Val Met His Tyr Gly
 100 105 110
 Gln Leu Ala Glu Gln Leu Gly Arg Ala Gly Ala Ala Arg Ala Val Gly
 115 120 125
 Ala Ala Asn Gly Ser Asn Pro Val Ser Ile Val Val Pro Cys His Arg
 130 135 140
 Val Ile Gly Arg Asn Gly Thr Leu Thr Gly Tyr Ala Gly Gly Val Gln
 145 150 155 160
 Arg Lys Glu Trp Leu Leu Arg His Glu Gly Tyr Phe Leu Leu
 165 170 175

<210> 7198

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 7198

Gly Leu Ser Lys Pro Met Ile Pro Glu Lys Arg Ile Ile Arg Arg Ile
 1 5 10 15
 Gln Ser Gly Gly Cys Ala Ile His Cys Gln Asp Cys Ser Ile Ser Gln
 20 25 30
 Leu Cys Ile Pro Phe Thr Leu Asn Glu His Glu Leu Asp Gln Leu Asp
 35 40 45
 Asn Ile Ile Glu Arg Lys Lys Pro Ile Gln Lys Gly Gln Thr Leu Phe
 50 55 60
 Lys Ala Gly Asp Glu Leu Lys Ser Leu Tyr Ala Ile Arg Ser Gly Thr
 65 70 75 80
 Ile Lys Ser Tyr Thr Ile Thr Glu Gln Gly Asp Glu Gln Ile Thr Gly
 85 90 95
 Phe His Leu Ala Gly Asp Leu Val Gly Phe Asp Ala Ile Gly Ser Gly
 100 105 110
 His His Pro Ser Phe Ala Gln Ala Leu Glu Thr Ser Met Val Cys Glu
 115 120 125
 Ile Pro Phe Glu Thr Leu Asp Asp Leu Ser Gly Lys Met Pro Asn Leu
 130 135 140
 Arg Gln Gln Met Met Arg Leu Met Ser Gly Glu Ile Lys Gly Asp Gln
 145 150 155 160
 Asp Met Ile Leu Leu Leu Ser Lys Lys Asn Ala Glu Glu Arg Leu Ala
 165 170 175
 Ala Phe Ile Tyr Asn Leu Ser Arg Arg Phe Ala Glu Arg Gly Phe Ser
 180 185 190
 Pro Arg Glu Phe Arg Leu Thr Met Thr Arg Gly Asp Ile Gly Asn Tyr
 195 200 205
 Leu Gly Leu Thr Val Glu Thr Ile Ser Arg Leu Leu Gly Arg Phe Gln
 210 215 220
 Lys Ser Gly Met Leu Ala Val Lys Gly Lys Tyr Ile Thr Ile Glu Asn

225		230		235		240								
Gly	Glu	Ala	Leu	Ala	Ile	Leu	Ala	Gly	His	Ser	Arg	Asn	Val	Ala
		245						250						255

<210> 7199

<211> 490

<212> PRT

<213> Enterobacter cloacae

<400> 7199

Phe	Pro	Val	Asp	Ala	Arg	Cys	Val	Met	Gln	Glu	Asn	Tyr	Ala	Phe	Ile
1			5					10						15	
Ala	Asp	Ala	Ile	Asp	Thr	Arg	Cys	Gln	Thr	Phe	Thr	Asp	Ile	Ala	Asp
		20						25					30		
Asp	Ile	Trp	Asp	His	Pro	Glu	Thr	Arg	Phe	Glu	Glu	Phe	Trp	Ser	Ala
		35					40					45			
Glu	Arg	Leu	Ala	Ser	Ala	Leu	Glu	Ala	Glu	Gly	Phe	Thr	Leu	Thr	Arg
	50					55					60				
Glu	Ala	Gly	Gly	Ile	Pro	Asn	Ala	Phe	Ile	Ala	Ser	Tyr	Gly	Ser	Gly
65				70					75						80
Lys	Pro	Val	Ile	Ala	Leu	Leu	Gly	Glu	Tyr	Asp	Ala	Leu	Ala	Gly	Leu
			85						90					95	
Ser	Gln	Gln	Ala	His	Cys	Ala	Thr	Ala	Gln	Ser	Ala	Thr	Pro	Gly	Ala
			100					105					110		
Asn	Gly	His	Gly	Cys	Gly	His	Asn	Leu	Leu	Gly	Thr	Ala	Ala	Phe	Ala
		115					120					125			
Gly	Ala	Val	Ala	Val	Lys	Ser	Trp	Leu	Glu	Gln	His	Gly	Gly	Ser	Gly
	130				135						140				
Thr	Val	Arg	Phe	Tyr	Gly	Cys	Pro	Gly	Glu	Glu	Gly	Gly	Ser	Gly	Lys
145					150					155					160
Thr	Phe	Met	Val	Arg	Glu	Gly	Leu	Phe	Asp	Asp	Val	Asp	Ala	Gly	Val
			165						170					175	
Thr	Trp	His	Pro	Glu	Ala	Phe	Ala	Gly	Met	Phe	Asn	Val	Ser	Thr	Leu
			180					185					190		
Ala	Asn	Ile	Gln	Ala	Ala	Trp	Arg	Phe	Lys	Gly	Ile	Ala	Ala	His	Ala
		195					200					205			
Ala	Asn	Ser	Pro	His	Leu	Gly	Arg	Ser	Ala	Leu	Asp	Ala	Val	Thr	Leu
	210					215					220				
Met	Thr	Thr	Gly	Thr	Asn	Phe	Leu	Asn	Glu	His	Ile	Ile	Glu	Lys	Ala
225					230					235					240
Arg	Val	His	Tyr	Ala	Ile	Thr	Asp	Thr	Gly	Gly	Ile	Ser	Pro	Asn	Val
			245						250					255	
Val	Gln	Ala	Gln	Ala	Glu	Val	Leu	Tyr	Leu	Ile	Arg	Ala	Pro	Glu	Met
		260						265					270		
Ala	Asp	Ala	Gln	Gln	Ile	Tyr	Ala	Arg	Ile	Glu	Lys	Ile	Ala	Gln	Gly
		275					280					285			
Ala	Ala	Met	Met	Thr	Glu	Thr	Thr	Val	Glu	Cys	Arg	Phe	Asp	Lys	Ala
	290					295					300				
Cys	Ser	Ser	Tyr	Leu	Pro	Asn	Arg	Thr	Leu	Glu	Ala	Ala	Met	Tyr	Arg
305					310					315					320
Ala	Leu	Gln	His	Tyr	Gly	Thr	Pro	Ala	Trp	Thr	Glu	Glu	Glu	Arg	Glu
			325						330					335	
Phe	Ala	Arg	Lys	Ile	Arg	Ala	Thr	Leu	Thr	Ala	Asn	Asp	Leu	Gln	Asn
			340				345						350		
Ser	Leu	Lys	Asn	Ile	Ala	Ala	Thr	Gly	Ala	Glu	Glu	Gly	Lys	Ala	Phe
		355					360					365			
Ala	Arg	Arg	His	Gln	Glu	Thr	Leu	Leu	Val	Asp	Glu	Val	Ala	Pro	Tyr
	370					375					380				
Ala	Ile	Thr	Asp	Asn	Val	Leu	Ala	Gly	Ser	Thr	Asp	Val	Gly	Asp	Val
385				390						395					400
Ser	Trp	Lys	Met	Pro	Val	Ala	Gln	Cys	Phe	Ser	Pro	Cys	Phe	Thr	Val

				405					410					415			
Gly	Thr	Pro	Leu	His	Thr	Trp	Gln	Leu	Val	Ala	Gln	Gly	Arg	Thr	Ser		
			420					425					430				
Ile	Ala	His	Lys	Gly	Met	Leu	Leu	Ala	Gly	Lys	Val	Met	Gly	Ala	Thr		
		435					440					445					
Ala	Leu	His	Leu	Leu	Gln	Asp	Ala	Asp	Leu	Leu	Arg	Lys	Cys	Arg	Glu		
	450					455					460						
Glu	Phe	Glu	Gln	His	Ile	Thr	Glu	Lys	Pro	Tyr	Glu	Cys	Pro	Ile	Pro		
465					470					475					480		
Gln	Gly	Val	Thr	Pro	Ser	Pro	Leu	Lys									
				485					490								

<210> 7200

<211> 573

<212> PRT

<213> Enterobacter cloacae

<400> 7200

Ile	Arg	Tyr	Asp	Asp	Ser	Ile	Asp	Val	Thr	Leu	Pro	Leu	Leu	Leu	Arg		
1			5					10					15				
Met	Thr	Ala	Met	Leu	Lys	Asn	Leu	His	Val	Ile	Thr	Gly	Ile	Ile	Phe		
		20					25						30				
Ala	Leu	Thr	Ile	Phe	Cys	Leu	Leu	Gln	Val	Val	Thr	Gly	Gly	Leu	Phe		
	35					40						45					
Tyr	Ser	Ala	Val	Asn	Asn	Asp	Arg	His	Asn	Phe	Gln	Asn	Ser	Gly	Leu		
	50				55					60							
Leu	Asn	Ala	Gln	Gln	Glu	Ser	Leu	Ser	Asp	Ser	Val	Asn	Thr	Leu	Val		
65					70				75						80		
Lys	Thr	Arg	Val	Thr	Val	Thr	Arg	Val	Ala	Ile	Arg	Tyr	Leu	Lys	Asn		
		85						90						95			
Gln	Arg	Asp	Pro	Ala	Ser	Leu	Ala	Ala	Ile	Asn	Thr	Leu	Leu	Gly	Thr		
		100					105						110				
Ala	Asn	Gly	Ser	Leu	Ala	Lys	Ala	Glu	Asp	Tyr	Tyr	Lys	Asn	Trp	Gln		
	115					120						125					
Ala	Ile	Pro	Gln	Val	Lys	Gly	Gln	His	Ala	Ala	Leu	Thr	Glu	Glu	Met		
	130					135					140						
Gln	Lys	Ala	Trp	Lys	Gln	Met	His	Glu	Val	Met	Arg	Leu	Ser	Ile	Glu		
145				150					155						160		
Tyr	Leu	Arg	Ala	Asp	Asn	Tyr	Gln	Ala	Tyr	Gly	Asp	Leu	Asp	Ala	Gln		
		165						170						175			
Gln	Ala	Gln	Asp	Glu	Met	Glu	Ala	Val	Tyr	Thr	Arg	Trp	Arg	Ala	Glu		
	180					185							190				
Asn	Asn	Val	Leu	Leu	Lys	Ala	Ala	Ala	Glu	Glu	Asn	Gln	Ser	Ser	Phe		
	195					200						205					
Thr	Gln	Met	Gln	Trp	Thr	Leu	Ala	Ala	Ile	Phe	Leu	Thr	Val	Ile	Ala		
	210				215						220						
Val	Leu	Val	Val	Ile	Trp	Gln	Gly	Leu	Gln	His	Leu	Leu	Leu	Lys	Pro		
225				230					235						240		
Leu	Asn	Ala	Ile	Met	Asn	His	Ile	Arg	Thr	Ile	Ala	Ser	Gly	Asp	Leu		
		245						250						255			
Thr	Gln	Asn	Val	Ala	Ile	Ala	Gly	Arg	Asn	Glu	Met	Gly	Gln	Leu	Ala		
	260					265							270				
Ala	Gly	Leu	His	Glu	Met	Gln	Gln	Ser	Leu	Val	Ser	Thr	Val	Ser	Ala		
	275					280						285					
Val	Arg	Gly	Ser	Thr	Asp	Ser	Ile	Tyr	Thr	Gly	Ala	Gly	Glu	Ile	Ala		
	290				295					300							
Ala	Gly	Ser	Asn	Asp	Leu	Ser	Ala	Arg	Thr	Glu	Gln	Gln	Ala	Ala	Ser		
305				310					315						320		
Leu	Glu	Glu	Thr	Ala	Ala	Ser	Met	Glu	Glu	Leu	Thr	Ala	Thr	Val	Lys		
			325					330						335			
Gln	Asn	Ser	Asp	Asn	Ala	Arg	Gln	Ala	Thr	Leu	Leu	Ala	Lys	Asn	Ala		

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<210> 7201
<211> 449
<212> PRT
<213> Enterobacter cloacae
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<400> 7201															
Ser 1	Ser	Ser	His	Ile 5	Leu	Met	Met	Thr	Gly 10	Lys	Asp	Met	Asn	Ala 15	Leu
Ala	Gln	Tyr	Ile 20	Gln	Thr	Leu	Ala	Pro 25	Gln	Leu	Ser	Ala	Trp 30	Arg	Arg
Asp	Phe	His 35	His	Phe	Ala	Glu	Ser 40	Gly	Trp	Val	Glu	Phe 45	Arg	Thr	Ala
Ala	Lys 50	Val	Ala	Glu	Ile	Leu 55	Ala	Ser	Leu	Gly	Tyr 60	Glu	Leu	Ala	Met
Gly 65	Arg	Asp	Val	Val	Asp 70	Ala	Glu	Ser	Arg	Met 75	Gly	Leu	Pro	Asp	Asp 80
Ala	Thr	Leu	Ser 85	Arg	Glu	Phe	Ala	Arg	Ala 90	Arg	Ala	Gln	Gly	Ala 95	Pro
Glu	Lys	Trp	Leu 100	Ala	Pro	Phe	Glu	Gly 105	Gly	Phe	Thr	Gly	Ile 110	Val	Ala
Thr	Leu	Asn 115	Thr	Gly	Arg	Pro	Gly 120	Pro	Thr	Leu	Ala	Phe 125	Arg	Val	Asp
Met	Asp 130	Ala	Leu	Asp	Leu	Ser 135	Glu	Ala	Leu	Asp	Asp 140	Ser	His	Arg	Pro
Phe 145	Arg	Asp	Gly	Phe	Ala 150	Ser	Cys	Asn	Pro	Gly 155	Met	Met	His	Ala	Cys 160
Gly	His	Asp	Gly	His 165	Thr	Thr	Ile	Gly	Leu 170	Gly	Leu	Ala	Gln	Val 175	Leu
Lys	Gln	His 180	Glu	Ala	Gln	Leu	Asn	Gly 185	Thr	Ile	Lys	Leu	Ile 190	Phe	Gln
Pro	Ala	Glu	Glu	Gly	Thr	Arg	Gly	Ala	Arg	Ala	Met	Val	Ala	Ala	Gly

195					200					205					
Ala	Leu	Asp	Gly	Val	Asp	Tyr	Phe	Thr	Ala	Ile	His	Ile	Gly	Thr	Gly
210					215					220					
Val	Pro	Glu	Gly	Thr	Val	Ile	Cys	Gly	Ser	Asp	Asn	Phe	Met	Ala	Thr
225					230					235					240
Thr	Lys	Phe	Asp	Val	Arg	Phe	Thr	Gly	Val	Ala	Ala	His	Ala	Gly	Gly
				245					250					255	
Lys	Pro	Glu	Glu	Gly	Arg	Asn	Ala	Leu	Leu	Ala	Ala	Ala	Gln	Ala	Ala
				260					265					270	
Ile	Ala	Leu	His	Gly	Ile	Ala	Pro	His	Ser	Glu	Gly	Ala	Ser	Arg	Val
				275					280					285	
Asn	Val	Gly	Val	Met	Gln	Ala	Gly	Ser	Gly	Arg	Asn	Val	Val	Pro	Ala
				290					295					300	
Asp	Ala	Leu	Leu	Lys	Val	Glu	Thr	Arg	Gly	Glu	Ser	Glu	Ala	Ile	Asn
305					310					315					320
Gln	Tyr	Val	Phe	Glu	Arg	Ala	Gln	Ala	Val	Ile	Thr	Gly	Ala	Ala	Ala
				325					330					335	
Leu	Tyr	Gly	Val	Thr	Thr	Gly	Ile	Asn	Leu	Met	Gly	Ala	Ala	Thr	Ser
				340					345					350	
Ser	Val	Pro	Ser	Pro	Ala	Trp	Val	Asp	Tyr	Leu	Arg	Glu	Gln	Ala	Ser
				355					360					365	
Gln	Val	Pro	Gly	Val	Thr	His	Ala	Ile	Asn	Lys	Val	Lys	Ala	Pro	Ala
				370					375					380	
Gly	Ser	Glu	Asp	Ala	Thr	Leu	Met	Met	Ala	Arg	Val	Gln	Gln	Asn	Gly
385					390					395					400
Gly	Met	Ala	Ser	Tyr	Met	Val	Phe	Gly	Thr	Gln	Leu	Ser	Ala	Gly	His
				405					410					415	
His	Asn	Glu	Lys	Phe	Asp	Phe	Asp	Glu	Gln	Val	Met	Asn	Val	Ala	Ile
				420					425					430	
Glu	Thr	Leu	Ala	Arg	Thr	Ala	Leu	Asn	Phe	Pro	Trp	Thr	Arg	Gly	Val
				435					440					445	

<210> 7202

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7202

Val	Thr	Leu	Leu	Leu	Thr	Asp	Cys	Gly	Asp	Ser	Ser	Lys	Glu	Thr	Cys
1				5					10					15	
Met	Ala	Lys	Tyr	Gln	Asn	Met	Leu	Val	Ala	Ile	Asp	Pro	Asn	Gln	Asp
				20					25				30		
Asp	Gln	Pro	Ala	Leu	Arg	Arg	Ala	Val	Tyr	Leu	His	Gln	Arg	Ile	Gly
				35				40				45			
Gly	Lys	Ile	Lys	Ala	Phe	Leu	Pro	Ile	Tyr	Asp	Phe	Ser	Tyr	Glu	Met
				50			55				60				
Thr	Thr	Leu	Leu	Ser	Pro	Asp	Glu	Arg	Thr	Ala	Met	Arg	Gln	Gly	Val
65					70					75					80
Ile	Ser	Gln	Arg	Thr	Ala	Trp	Ile	Arg	Glu	Gln	Ala	Lys	Tyr	Tyr	Leu
				85					90					95	
Glu	Ala	Gly	Val	Pro	Ile	Asp	Ile	Lys	Val	Val	Trp	His	Asn	Arg	Pro
				100				105					110		
Phe	Glu	Ala	Ile	Ile	Gln	Glu	Val	Val	Ala	Gly	Gly	His	Asp	Leu	Leu
				115				120				125			
Leu	Lys	Met	Ala	His	Gln	His	Asp	Lys	Leu	Glu	Ser	Val	Ile	Phe	Thr
				130			135					140			
Pro	Thr	Asp	Trp	His	Leu	Leu	Arg	Lys	Cys	Pro	Cys	Pro	Val	Trp	Met
145					150					155					160
Val	Lys	Asp	Gln	Pro	Trp	Pro	Glu	Gly	Gly	Lys	Ala	Val	Val	Ala	Val

Asn	Leu	Ala	Ser	165	Glu	Glu	Asp	Tyr	His	170	Asn	Ser	Leu	Asn	Glu	175	Lys	Leu
Val	Lys	Glu	180	Thr	Leu	Gln	Leu	Ala	185	Asp	Gln	Val	Asn	His	190	Thr	Glu	Val
His	Leu	Val	195	Gly	Ala	Tyr	Pro	Val	200	Thr	Pro	Ile	Asn	Ile	Ala	Ile	Glu	
Leu	Pro	Glu	210	Phe	Asp	Pro	Ser	Val	215	Tyr	Asn	Asp	Ala	Ile	Arg	Gly	Gln	
His	Leu	Leu	225	Ala	Met	Lys	Ala	Leu	230	Arg	Gln	Lys	Phe	Ser	Ile	Asp	Glu	
Asn	Met	Thr	245	His	Val	Glu	Lys	Gly	250	Leu	Pro	Glu	Glu	Val	Ile	Pro	Asp	
Leu	Ala	Glu	260	His	Leu	Gln	Ala	Gly	265	Ile	Val	Val	Leu	Gly	Thr	Ile	Gly	
Arg	Thr	Gly	275	Ile	Ser	Ala	Ala	Phe	280	Leu	Gly	Asn	Thr	Ala	Glu	Gln	Val	
Ile	Asp	His	290	Leu	Arg	Cys	Asp	Leu	295	Leu	Val	Ile	Lys	Pro	Asp	Gln	Tyr	
Gln	Thr	Pro	305	Val	Glu	Leu	Asp	Asp	310	Glu	Glu	Asp	Asp				320	
					325						330							

<210> 7203

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 7203

Lys	Arg	Asn	His	Leu	Gly	Ile	Ala	Gly	Leu	Ala	Ile	Ala	Leu	Ile	Ala			
1			5						10					15				
Thr	Ile	Phe	Gly	Pro	Asp	Pro	Gly	Asn	Val	Ala	Trp	Ile	Leu	Val	Ala			
			20					25					30					
Met	Ile	Ile	Gly	Gly	Ala	Ile	Gly	Ile	Arg	Leu	Ala	Lys	Arg	Val	Glu			
			35				40					45						
Met	Thr	Glu	Met	Pro	Glu	Leu	Val	Ala	Ile	Leu	His	Ser	Phe	Val	Gly			
			50			55					60							
Leu	Ala	Ala	Val	Leu	Val	Gly	Phe	Asn	Ser	Tyr	Leu	Tyr	His	Glu	Pro			
65				70					75					80				
Gly	Leu	Glu	Pro	Ile	Leu	Val	Asn	Ile	His	Leu	Thr	Glu	Val	Phe	Leu			
				85				90						95				
Gly	Ile	Phe	Ile	Gly	Ala	Val	Thr	Phe	Thr	Gly	Ser	Ile	Val	Ala	Phe			
			100					105					110					
Gly	Lys	Leu	Arg	Gly	Lys	Ile	Ser	Ser	Lys	Pro	Leu	Met	Leu	Pro	Asn			
			115				120					125						
Arg	His	Lys	Leu	Asn	Leu	Ala	Ala	Leu	Val	Val	Ser	Phe	Val	Leu	Leu			
			130			135					140							
Val	Val	Phe	Val	Arg	Thr	Glu	Ser	Val	Gly	Leu	Gln	Val	Leu	Ala	Leu			
145				150					155						160			
Leu	Val	Met	Thr	Ile	Ile	Ala	Leu	Ala	Phe	Gly	Trp	His	Leu	Val	Ala			
				165				170						175				
Ser	Ile	Gly	Gly	Ala	Asp	Met	Pro	Val	Val	Val	Ser	Met	Leu	Asn	Ser			
			180				185					190						
Tyr	Ser	Gly	Trp	Ala	Ala	Ala	Ala	Ala	Gly	Phe	Met	Leu	Ser	Asn	Asp			
			195				200					205						
Leu	Leu	Ile	Val	Thr	Gly	Ala	Leu	Val	Gly	Ser	Ser	Gly	Ala	Ile	Leu			
			210			215						220						
Ser	Tyr	Ile	Met	Cys	Lys	Ala	Met	Asn	Arg	Ser	Phe	Ile	Ser	Val	Ile			
225				230					235						240			
Ala	Gly	Gly	Phe	Gly	Ser	Asp	Gly	Ser	Ser	Thr	Gly	Ser	Asp	Glu	Glu			
				245				250						255				
Val	Gly	Glu	His	Arg	Glu	Ile	Ser	Ala	Glu	Asp	Thr	Ala	Glu	Met	Leu			

Lys	Asn	Ser	His	Ser	Val	Ile	Ile	Thr	Pro	Gly	Tyr	Gly	Met	Ala	Val
		275					280					285			
Ala	Gln	Ala	Gln	Tyr	Pro	Val	Ala	Glu	Ile	Thr	Glu	Lys	Leu	Arg	Ala
		290				295					300				
Arg	Gly	Ile	Lys	Val	Arg	Phe	Gly	Ile	His	Pro	Val	Ala	Gly	Arg	Leu
305					310					315					320
Pro	Gly	His	Met	Asn	Val	Leu	Leu	Ala	Glu	Ala	Lys	Val	Pro	Tyr	Asp
				325					330					335	
Ile	Val	Leu	Glu	Met	Asp	Glu	Ile	Asn	Asp	Asp	Phe	Ala	Asp	Thr	Asp
			340					345					350		
Thr	Val	Leu	Val	Ile	Gly	Ala	Asn	Asp	Thr	Val	Asn	Pro	Ala	Ala	Gln
		355					360					365			
Asp	Asp	Pro	Arg	Ser	Pro	Ile	Ala	Gly	Met	Pro	Val	Leu	Glu	Val	Trp
		370				375					380				
Lys	Ala	Gln	Asn	Val	Ile	Val	Phe	Lys	Arg	Ser	Met	Asn	Thr	Gly	Tyr
385					390					395					400
Ala	Gly	Val	Gln	Asn	Pro	Leu	Phe	Phe	Lys	Asp	Asn	Thr	His	Met	Leu
				405					410					415	
Phe	Gly	Asp	Ala	Lys	Ala	Ser	Val	Asp	Ala	Ile	Leu	Lys	Ala	Leu	
			420					425					430		

<210> 7204

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7204

Ile	Arg	Ile	Ile	Phe	Met	Arg	Lys	Val	Ser	Met	Ser	Ser	Ile	Asp	Lys
1			5						10					15	
Ser	Gly	Thr	Phe	Thr	Leu	Gly	Thr	Arg	Thr	Val	Lys	Arg	Phe	Gly	Tyr
			20					25					30		
Gly	Ala	Met	Gln	Leu	Ala	Gly	Pro	Gly	Val	Phe	Gly	Pro	Pro	Lys	Asp
		35				40					45				
Lys	Asn	Ala	Ala	Leu	Ala	Val	Leu	Arg	Glu	Ala	Val	Ala	Ser	Gly	Val
		50				55					60				
Asn	His	Ile	Asp	Thr	Ser	Asp	Phe	Tyr	Gly	Pro	His	Val	Thr	Asn	Gln
65					70				75					80	
Leu	Ile	Cys	Glu	Ala	Leu	His	Pro	Tyr	Arg	Asp	Asp	Leu	Thr	Ile	Val
			85					90					95		
Thr	Lys	Ile	Gly	Ala	Arg	Arg	Gly	Glu	Asp	Ala	Ser	Trp	Leu	Pro	Ala
			100					105					110		
Phe	Ser	Ala	Gln	Glu	Leu	Thr	Gln	Ala	Val	His	Asp	Asn	Leu	Arg	Asn
		115					120					125			
Leu	Lys	Arg	Asp	Val	Leu	Asp	Val	Val	Asn	Leu	Arg	Ile	Met	Phe	Ser
		130				135					140				
Ala	His	Gly	Pro	Ala	Glu	Gly	Ser	Ile	Ala	Ala	Pro	Leu	Ser	Thr	Leu
145					150					155					160
Ala	Glu	Leu	Gln	Gln	Gly	Leu	Val	Arg	His	Ile	Gly	Leu	Ser	Asn	
			165					170					175		
Val	Thr	Ala	Ser	Gln	Val	Ala	Glu	Ala	Gln	Lys	Met	Val	Ser	Val	Val
			180					185					190		
Cys	Val	Gln	Asn	Met	Tyr	Asn	Val	Val	Asn	Arg	Gly	Asp	Asp	Val	Leu
		195				200					205				
Val	Asp	Ser	Leu	Ala	Gln	Gln	Gly	Ile	Ala	Trp	Val	Pro	Phe	Phe	Pro
		210				215					220				
Leu	Gly	Gly	Phe	Thr	Pro	Leu	Gln	Ser	Ser	Gly	Leu	Gln	Ala	Val	Ala
225					230					235					240
Asp	Ser	Leu	Gly	Ala	Thr	Pro	Met	Gln	Val	Ala	Leu	Ala	Trp	Leu	Leu
				245					250					255	
Gln	Arg	Ser	Pro	Asn	Ile	Leu	Leu	Ile	Pro	Gly	Thr	Ser	Ser	Val	Ala

		260					265			270			
His	Leu	Arg	Glu	Asn	Leu	Ala	Ala	Val	Asp	Leu	Val	Leu	Pro
		275					280					285	Glu
Ala	Leu	Glu	Thr	Leu	Asn	Ser	Leu	Val	Gly				
		290				295							

<210> 7205

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 7205

Lys	Arg	Cys	Asn	Phe	Ala	His	Pro	Asp	Lys	Pro	Pro	Pro	Gly	Ala	Val
1			5					10					15		
Phe	Leu	Phe	Leu	Arg	Pro	Ala	Phe	Leu	Leu	Cys	Leu	Tyr	Phe	Thr	Leu
		20					25						30		
Cys	Val	Ile	Arg	Gly	Gly	Val	Met	Arg	Phe	Leu	Ser	Arg	Phe	Asp	Ile
		35					40					45			
Ile	Glu	Leu	Met	Met	Thr	Pro	Ser	Phe	Trp	Ile	Gly	Val	Ala	Thr	Val
	50					55					60				
Val	Phe	Val	Thr	Leu	Leu	Val	Tyr	Trp	Leu	Leu	Thr	Arg	Leu	Ile	Ala
65				70					75					80	
Phe	Val	Lys	Lys	Gly	Ile	Thr	Thr	Trp	Gly	Asp	Lys	His	Pro	Ser	Thr
			85					90					95		
Asn	Arg	Met	Arg	Phe	Ile	Leu	Thr	Asp	Met	Leu	Asn	Arg	Thr	Ser	Arg
		100					105						110		
Val	Leu	Leu	Phe	Val	Val	Ala	Leu	Leu	Phe	Ser	Leu	Arg	Phe	Val	Asp
	115					120						125			
Leu	Pro	Asp	His	Leu	Phe	Gly	Thr	Val	Ser	His	Ala	Trp	Phe	Leu	Val
	130					135					140				
Phe	Ala	Ile	Gln	Val	Ala	Leu	Trp	Met	Asp	Gln	Gly	Val	Val	Ser	Trp
145				150					155					160	
Leu	Arg	His	Val	Met	Leu	Ala	Pro	Gly	Ser	His	Lys	Asn	Pro	Val	Thr
			165					170						175	
Leu	Val	Ile	Thr	Gly	Leu	Ile	Leu	Arg	Ala	Ile	Val	Trp	Ser	Val	Met
	180						185						190		
Leu	Leu	Ser	Ile	Leu	Ala	Asn	Ala	Gly	Val	Asn	Ile	Thr	Ala	Leu	Val
	195					200						205			
Ala	Ser	Leu	Gly	Val	Gly	Gly	Ile	Ala	Ile	Ala	Leu	Ala	Val	Gln	Thr
	210				215						220				
Ile	Leu	Ser	Asp	Val	Phe	Ala	Ser	Leu	Ser	Ile	Gly	Phe	Asp	Lys	Pro
225				230					235					240	
Phe	Glu	Ile	Gly	Asp	Phe	Val	Val	Phe	Asn	Asp	Val	Ala	Gly	Thr	Val
			245					250					255		
Glu	His	Ile	Gly	Leu	Lys	Thr	Thr	Arg	Ile	Arg	Ser	Leu	Ser	Gly	Glu
	260						265						270		
Gln	Ile	Val	Cys	Gly	Asn	Ala	Ile	Leu	Leu	Gln	Gln	Thr	Leu	His	Asn
	275					280						285			
Tyr	Lys	Arg	Met	Gln	Thr	Arg	Arg	Ile	Val	Phe	Thr	Phe	Gly	Val	Ala
	290				295						300				
Ser	Asp	Thr	Ala	Pro	Glu	Lys	Leu	Arg	Ser	Val	Gly	Glu	Met	Val	Lys
305				310					315					320	
Gln	Ile	Ile	Thr	Asp	Val	Gly	Glu	Thr	Lys	Phe	Asp	Arg	Ala	His	Phe
			325					330					335		
Leu	Gly	Phe	Asp	Arg	Asp	Arg	Leu	Thr	Phe	Glu	Val	Val	His	Ile	Val
	340						345						350		
Asn	Thr	Ala	Asp	Tyr	Asn	Lys	Tyr	Met	Asp	Ile	Gln	Gln	Glu	Ile	Asn
	355					360						365			
Ile	Arg	Ile	Leu	Glu	Glu	Leu	Asn	Gln	Gln	Glu	Ile	Lys	Leu	Ala	Leu
	370				375					380					
Pro	Ser	Met	Val	Leu	His	Ala	Pro	Trp	Met	Asn	Ala	Gly	Asp	Glu	Ala

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<210> 7206
<211> 309
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7207
<211> 217
<212> PRT
<213> Enterobacter cloacae
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Ala Ile Ile Cys Thr Arg Ala Arg Met Ile Glu Thr Arg Asn Gly Arg
1 5 10 15
Arg Tyr Ser Thr Ser Leu Arg Cys Ser Arg Arg Ile Ser Met Asn Pro
20 25 30

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<210> 7208
<211> 470
<212> PRT
<213> Enterobacter cloacae
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Ile 1	Met	Thr	Leu	Thr 5	Ser	Arg	Trp	Pro	Ala 10	Val	Leu	Gln	Ala	Val 15	Met
Gln	Gly	Gln	Pro 20	Arg	Ala	Leu	Ala	Asp 25	Ser	His	Tyr	Pro	Gln 30	Trp	His
Pro	Ala	Pro 35	Val	Thr	Gly	Leu	Met 40	Asn	Asp	Pro	Asn	Gly 45	Phe	Ile	Trp
Phe	Ala 50	Gly	Arg	Tyr	His	Leu 55	Phe	Tyr	Gln	Trp	Asn 60	Pro	Leu	Gly	Cys
Asn 65	His	Arg	Tyr	Lys 70	Cys	Trp	Gly	His	Trp	Ser 75	Ser	Ala	Asp	Leu	Val 80
His	Trp	Gln	His	Glu 85	Pro	Met	Ala	Leu	Met 90	Pro	Asp	Glu	Glu	Tyr 95	Asp
Arg	Asn	Gly	Cys 100	Tyr	Ser	Gly	Ser	Ala 105	Val	Asp	Asn	Asn	Gly 110	Val	Leu
Thr	Leu	Cys 115	Tyr	Thr	Gly	Asn	Val 120	Lys	Phe	Asp	Asp	Gly 125	Gly	Arg	Thr
Ala	Trp 130	Gln	Cys	Leu	Ala	Val 135	Gln	Asn	Asp	Asp	Gly 140	Thr	Phe	Ala	Lys
Leu 145	Gly	Pro	Val	Leu 150	Pro	Leu	Pro	Asp	Gly	Tyr 155	Thr	Gly	His	Val	Arg 160
Asp	Pro	Lys	Val	Trp 165	Arg	His	Asp	Gly	Leu 170	Trp	Tyr	Met	Val	Leu 175	Gly
Ala	Gln	Asp	Arg 180	His	Lys	Arg	Gly	Lys 185	Val	Leu	Leu	Phe	Thr 190	Ser	Ala
Asp	Leu	His 195	Thr	Trp	Ala	Ser	Cys 200	Gly	Glu	Ile	Ala	Gly 205	His	Gly	Val
Asn	Gly 210	Leu	Thr	Asp	Ala	Gly 215	Tyr	Met	Trp	Glu	Cys 220	Pro	Asp	Leu	Phe
Glu 225	Leu	Asp	Gly	Thr	His 230	Val	Leu	Ile	Tyr	Cys 235	Pro	Gln	Gly	Leu	Ala 240

Arg Glu Pro His Arg Tyr Leu Asn Thr Tyr Pro Ala Val Trp Met Ser
 245 250 255
 Gly Ala Phe Asp Tyr Gln Thr Pro Ala Phe Thr His Gly Glu Leu His
 260 265 270
 Glu Leu Asp Ala Gly Phe Glu Phe Tyr Ala Pro Gln Thr Thr Val Ala
 275 280 285
 Glu Asp Gly Arg Arg Ile Leu Ile Gly Trp Met Gly Val Pro Asp Gly
 290 295 300
 Glu Glu Met Leu Gln Pro Thr Arg Ala His Gly Trp Ile His Gln Met
 305 310 315 320
 Thr Cys Pro Arg Glu Leu Arg Tyr Arg Asp Gly Lys Leu Trp Gln Thr
 325 330 335
 Pro Val Arg Glu Leu Glu Thr Leu Arg Glu Asp Glu His His Trp Gln
 340 345 350
 Gly Arg Ala Ser Asp Ala Pro Val Leu Ala Gly Ala Arg Leu Glu Phe
 355 360 365
 Glu Leu Ser Ala Ser Cys Val Asn Val Asp Phe Ala Gly Ala Leu Arg
 370 375 380
 Leu Ile Val Asp Asp Ala Gly Ile Arg Leu Glu Arg Ala Ser Leu Lys
 385 390 395 400
 Thr Ala Asp Thr Leu Thr Arg Tyr Trp Gln Gly Thr Val His His Leu
 405 410 415
 Arg Val Leu Cys Asp Arg Ser Ser Val Glu Ile Phe Ile Asn His Gly
 420 425 430
 Glu Gly Val Met Ser Ser Arg Tyr Phe Pro Asp His Pro Ala Gln Val
 435 440 445
 Arg Phe Glu Gly Ala Ser Asp Ile Thr Leu Arg Tyr Trp Ser Leu Arg
 450 455 460
 Ser Cys Met Ile Glu
 465 470

<210> 7209

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 7209

Arg Leu Asp Ser Ala Asp Asn Gln Arg Glu Ile Ile Ser Leu Arg Cys
 1 5 10 15
 Val Met Ser Leu Lys Lys Ser Ser Leu Ile Ile Leu Phe Ser Leu Leu
 20 25 30
 Phe Phe Phe Val Ala Ser Thr Ile Thr Ser Val Gly Leu Ile Ile Lys
 35 40 45
 Ser Asn Thr Ser Leu Asp Asn Val Asn Lys Glu Ile Gln Val Val Leu
 50 55 60
 Ser Ile Ile Asp Pro Ile Asn His Ser Arg Thr Leu Arg Val Arg Val
 65 70 75 80
 Met Glu Tyr Val Lys Met Val Glu Ala Gly Asp Ala Thr Asp Pro Ser
 85 90 95
 Ala Lys Leu Ala Ser Val Lys Glu Ala Leu Thr Lys Ala Asp Ser Ala
 100 105 110
 Phe Ser Ala Phe Met Ala Ser Pro Arg Leu Gln Glu Glu Ala Pro Leu
 115 120 125
 Val Thr Ala Tyr Gln Glu Ala Trp Gln Asn Tyr Arg Asn Gln Gly Leu
 130 135 140
 Ala Pro Leu Ile Ala Ala Ala Ala His Asp Val Ser Arg Phe Asn
 145 150 155 160
 Ala Leu Ile Pro Val Val Ser Gln Leu Asp Arg Gln Tyr Glu Ile Val
 165 170 175
 Leu Asp Gln Val Leu Ser Val His Gln Lys Tyr Ala Lys Thr Leu Asn
 180 185 190

Glu Glu Ala Ser His Asp Phe Val Ser Gly Leu Val Ile Ile Ala Ser
 195 200 205
 Ile Ala Val Leu Phe Val Val Ile Phe Ala Val Ser Leu Leu Met
 210 215 220
 Lys Arg Val Val Phe Ala Pro Val Asn Leu Ala Arg Glu His Cys Arg
 225 230 235 240
 Gln Ile Ala Ala Gly Lys Leu Asp Val Pro Val Pro Ile Lys Arg Asp
 245 250 255
 Ser Gly Asn Glu Ile Asp His Leu Met Ser Ser Met Glu Gln Met Arg
 260 265 270
 Gln Ala Leu Leu Ser Thr Ile Ser Gln Val Arg Asp Ala Ser Gln Thr
 275 280 285
 Val Thr His Ala Ala Gln Glu Ile Ala Ser Gly Asn Ile Asp Leu Ala
 290 295 300
 Ser Arg Thr Glu Gln Gln Ala Ser Ala Leu Thr Gln Thr Ala Ala Ser
 305 310 315 320
 Met Glu Glu Leu Ser Ala Thr Val Ala Asn Asn Thr Asp Asn Val Phe
 325 330 335
 Gln Ala Gly Lys Leu Val Gln Asp Ala Val Lys Asn Ala His Thr Gly
 340 345 350
 Glu Ala Val Thr Arg Glu Val Ile Glu Thr Met Ser Thr Ile Ala Ser
 355 360 365
 Asn Ser Lys Arg Ile Glu Asp Ile Thr Ser Val Ile Asn Ser Ile Ala
 370 375 380
 Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg
 385 390 395 400
 Ala Gly Ala Gln Gly Arg Gly Phe Ala Val Val Ala Ser Glu Val Arg
 405 410 415
 Thr Leu Ala Gln Lys Ser Ala Val Ala Ala Lys Asp Ile Glu Ser Leu
 420 425 430
 Ile Ala Gln Ser Val Ser Ser Val Lys Asn Gly Ala Glu Leu Val Asn
 435 440 445
 Arg Ser Gly Glu Val Ile Asp Ser Ile Ile Ser Ser Val Asn Lys Val
 450 455 460
 His Met Leu Met Glu Gln Ile Ser Val Ala Ser Glu Glu Gln Ser Arg
 465 470 475 480
 Gly Ile Gly Gln Val Gly Gln Ala Val Thr Glu Met Asp Gly Val Thr
 485 490 495
 Gln Gln Asn Ala Ala Leu Val Gln Gln Ser Ala Ala Ala Ala Ser
 500 505 510
 Leu Glu Glu Gln Ala Gln Gln Leu Ser Gln Ser Ile Ser Arg Phe Ser
 515 520 525
 Leu Pro Ala Thr Ala
 530

<210> 7210

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 7210

Glu Arg Val Ser Phe Gln Pro Arg Gly Glu Asp Leu Ala Gly Thr Gly
 1 5 10 15
 Gly Gly Val Tyr Asp Val Lys Trp Asn Asp Thr Leu Arg Ser Asn Phe
 20 25 30
 Ser Leu Tyr Gly Arg Asn Phe Gly Ser Glu Glu Glu Ile Asp Asn Asn
 35 40 45
 Val Gln Asn Tyr Ile Leu Ser Met Asn His Phe Ala Gly Pro Val Gln
 50 55 60
 Met Met Val Ser Gly Leu Arg Ala Lys Asp Asn Asp Asp Arg Lys Asp
 65 70 75 80

Ser Asn Gly Asp Pro Ile Lys Thr Asp Ala Ala Asn Asn Gly Val His
 85 90
 Ala Leu Val Gly Leu His Asn Glu Ser Phe Tyr Gly Leu Arg Glu Gly
 100 105 110
 Ser Ala Lys Thr Ala Leu Leu Tyr Gly His Gly Leu Gly Ala Glu Val
 115 120 125
 Lys Ser Ile Gly Ser Asp Gly Ala Leu Leu Ser Glu Ala Asp Thr Trp
 130 135 140
 Arg Phe Ala Ser Tyr Gly Val Thr Pro Leu Gly Gly Gly Trp His Ile
 145 150 155 160
 Ala Pro Ala Val Leu Ala Gln Ser Ser Lys Asp Arg Tyr Val Lys Gly
 165 170 175
 Asp Ser Tyr Glu Trp Val Thr Leu Asn Thr Arg Leu Ile Lys Glu Val
 180 185 190
 Thr Gln Asn Phe Ala Leu Ala Phe Glu Gly Ser Tyr Gln Tyr Met Asp
 195 200 205
 Leu Ser Pro Glu Gly Tyr Lys Asp Arg Asn Ala Val Asn Gly Ser Phe
 210 215 220
 Tyr Lys Leu Thr Phe Ala Pro Thr Leu Lys Ala Gly Lys Ile Gly Asp
 225 230 235 240
 Phe Phe Ser Arg Pro Glu Leu Arg Leu Phe Ala Thr Trp Met Asp Trp
 245 250 255
 Ser Asn Lys Leu Asp Asn Tyr Ala Ser Asp Asp Ala Phe Gly Ser Thr
 260 265 270
 Gly Phe Asn Ala Gly Gly Glu Trp Asn Phe Gly Val Gln Met Glu Thr
 275 280 285
 Trp Phe
 290

<210> 7211

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7211

Pro Phe Thr Leu Pro His Arg Gly Gly Val Ser Asn Thr Ile Lys Arg
 1 5 10 15
 Gly Gln Glu Glu Val Ser Met Asp Phe Asn His Ile Ala Arg Glu Leu
 20 25 30
 Ile Pro Leu Leu Gly Gly Lys Glu Asn Ile Ala Ser Ala Ala His Cys
 35 40 45
 Ala Thr Arg Leu Arg Leu Val Leu Val Asp Asp Ala Leu Ala Asp Gln
 50 55 60
 Gln Ala Ile Gly Lys Val Glu Gly Val Lys Gly Cys Phe Arg Asn Ala
 65 70 75 80
 Gly Gln Met Gln Val Ile Phe Gly Thr Gly Val Val Asn Lys Val Tyr
 85 90 95
 Ala Ala Phe Ile Gln Ala Ala Gly Ile Ser Glu Ser Ser Lys Ser Glu
 100 105 110
 Ala Ala Asp Ile Ala Ala Arg Lys Leu Asn Pro Phe Gln Arg Ile Ala
 115 120 125
 Arg Leu Leu Ser Asn Ile Phe Val Pro Ile Ile Pro Ala Ile Val Ala
 130 135 140
 Ser Gly Leu Leu Met Gly Leu Leu Gly Met Val Lys Thr Tyr Gly Trp
 145 150 155 160
 Val Asn Pro Asp Asn Ala Leu Tyr Ile Met Leu Asp Met Cys Ser Ser
 165 170 175
 Ala Ala Phe Ile Leu Pro Ile Leu Ile Gly Phe Thr Ala Ala Arg
 180 185 190
 Glu Phe Gly Gly Asn Pro Tyr Leu Gly Ala Thr Leu Gly Gly Ile Leu
 195 200 205

Thr	His	Pro	Ala	Leu	Thr	Asn	Ala	Trp	Gly	Val	Ala	Ser	Gly	Phe	His
210						215					220				
Thr	Met	Asn	Phe	Phe	Gly	Leu	Glu	Ile	Ala	Met	Ile	Gly	Tyr	Gln	Gly
225					230					235					240
Thr	Val	Phe	Pro	Val	Leu	Leu	Ala	Val	Trp	Phe	Met	Ser	Ile	Val	Glu
				245					250					255	
Lys	Gln	Leu	Arg	Arg	Ala	Ile	Pro	Asp	Ala	Leu	Asp	Leu	Ile	Leu	Thr
			260					265					270		
Pro	Phe	Leu	Thr	Val	Ile	Ile	Ser	Gly	Phe	Ile	Ala	Leu	Leu	Ile	Ile
		275					280					285			
Gly	Pro	Ala	Gly	Arg	Ala	Leu	Gly	Asp	Gly	Ile	Ser	Phe	Ile	Leu	Ser
	290					295					300				
Thr	Leu	Ile	Ala	His	Ala	Gly	Trp	Leu	Ala	Gly	Leu	Leu	Phe	Gly	Gly
305					310					315					320
Leu	Tyr	Ser	Val	Ile	Val	Ile	Thr	Gly	Ile	His	His	Ser	Phe	His	Ala
			325					330						335	
Ile	Glu	Ala	Gly	Leu	Leu	Gly	Asn	Pro	Ser	Ile	Gly	Val	Asn	Phe	Leu
			340					345					350		
Leu	Pro	Ile	Trp	Ala	Met	Ala	Asn	Val	Ala	Gln	Gly	Gly	Ala	Cys	Leu
		355					360					365			
Ala	Val	Trp	Phe	Lys	Thr	Arg	Asp	Ala	Lys	Ile	Lys	Ala	Ile	Thr	Leu
	370					375					380				
Pro	Ser	Ala	Phe	Ser	Ala	Met	Leu	Gly	Ile	Thr	Glu	Ala	Ala	Ile	Phe
385					390					395					400
Gly	Ile	Asn	Leu	Arg	Phe	Val	Lys	Pro	Phe	Ile	Ala	Ala	Leu	Ile	Gly
			405					410						415	
Gly	Ala	Ala	Gly	Gly	Ala	Trp	Val	Val	Ser	Val	His	Val	Tyr	Met	Thr
			420				425						430		
Ala	Val	Gly	Leu	Thr	Ala	Ile	Pro	Gly	Met	Ala	Ile	Val	Gln	Ala	Ser
		435					440					445			
Ser	Leu	Leu	Asn	Tyr	Ile	Ile	Gly	Met	Val	Ile	Ala	Phe	Gly	Val	Ala
	450					455					460				
Phe	Thr	Val	Ser	Leu	Leu	Leu	Lys	Tyr	Lys	Thr	Asp	Ser	Glu		
465					470					475					

<210> 7212

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7212

Val	Val	Val	Arg	Lys	Thr	Lys	Arg	Val	Thr	Ile	Lys	Asp	Ile	Ala	Glu
1				5					10					15	
Leu	Ala	Gly	Val	Ser	Lys	Ala	Thr	Ala	Ser	Leu	Val	Leu	Asn	Gly	Arg
			20					25					30		
Ser	Lys	Glu	Leu	Arg	Val	Ala	Glu	Glu	Thr	Arg	Glu	Arg	Val	Leu	Ala
		35					40					45			
Ile	Ala	Lys	Glu	His	His	Tyr	Gln	Pro	Ser	Ile	His	Ala	Arg	Ser	Leu
		50				55					60				
Arg	Asp	Asn	Arg	Ser	His	Thr	Ile	Gly	Leu	Val	Val	Pro	Glu	Ile	Thr
65					70					75				80	
Asn	Tyr	Gly	Phe	Ala	Val	Phe	Ser	His	Glu	Leu	Glu	Thr	Leu	Cys	Arg
			85						90					95	
Glu	Ala	Gly	Val	Gln	Leu	Leu	Ile	Ser	Cys	Ser	Asp	Glu	Asn	Pro	Gly
			100					105					110		
Gln	Glu	Thr	Val	Val	Val	Asn	Asn	Met	Val	Ala	Arg	Gln	Val	Asp	Gly
		115					120					125			
Leu	Ile	Val	Ala	Ser	Ser	Met	Leu	Asn	Asp	Ala	Asp	Tyr	Gln	Lys	Leu
	130					135					140				
Ser	Glu	Gln	Leu	Pro	Val	Val	Leu	Phe	Asp	Arg	His	Met	Asn	Asp	Ser
145					150					155					160

Thr Leu Pro Leu Val Leu Thr Asp Ser Ile Thr Pro Thr Ala Thr Leu
 165 170 175
 Val Ala Asp Ile Ala Arg Lys His Pro Asp Glu Phe Tyr Phe Leu Gly
 180 185 190
 Gly Gln Pro Arg Leu Ser Pro Thr Arg Asp Arg Leu Glu Gly Phe Lys
 195 200 205
 Gln Gly Leu Arg Asp Ala Gly Val Glu Leu Arg Pro Glu Trp Ile Ile
 210 215 220
 His Gly Asn Tyr His Pro Ser Ser Gly Tyr Glu Met Phe Ala Glu Leu
 225 230 235 240
 Cys Ala Arg Leu Gly Arg Pro Pro Lys Ala Leu Phe Thr Ala Ala Cys
 245 250 255
 Gly Leu Leu Glu Gly Val Leu Arg Tyr Met Gly Gln His Asn Leu Leu
 260 265 270
 Gln Ser Asp Met Arg Leu Ala Ser Phe Asp Asp His Tyr Leu Tyr Asp
 275 280 285
 Ser Leu Thr Ile Pro Val Asp Thr Val Arg Gln Asp Asn Arg Gln Leu
 290 295 300
 Ala Trp His Cys Phe Asp Leu Ile Gly Lys Leu Ile Glu Gly Glu Thr
 305 310 315 320
 Pro Glu Pro Ile Gln Arg Lys Leu Asp Ala Thr Leu Gln Arg Arg Tyr
 325 330 335
 Lys Ala Val Glu
 340

<210> 7213

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7213

Ser Val Asp Arg Ala Ile Asn Phe Asp His Ser Glu Lys Gln Tyr Leu
 1 5 10 15
 Arg Gly Val Val Met Leu Gln Arg Leu Ala Lys Lys Lys Val Leu Leu
 20 25 30
 Leu Ser Ala Leu Met Val Ser Gly Leu Val Arg Ala Glu Glu Ser Leu
 35 40 45
 Pro Asp Val Val Lys His Phe Ser Glu Gln Gln Asp Ile Lys Ile Ile
 50 55 60
 Lys Lys Ile Asp Ala Pro Gly Gly Ala Pro Ala Trp Leu Gly Gln Tyr
 65 70 75 80
 Gln Asp Met Gly Val Thr Leu Phe Leu Thr Pro Asp Gly Lys His Val
 85 90 95
 Val Ser Gly Tyr Leu Tyr Asp Glu Lys Gly Thr Asn Leu Ser Glu Ala
 100 105 110
 Phe Phe Gln Lys Glu Ile Tyr Ala Pro Met Gly Arg Glu Met Trp Lys
 115 120 125
 Lys Leu Asn Ala Ala His Pro Leu Lys Glu Gly Ala Glu Ser Ala Pro
 130 135 140
 Arg Lys Val Phe Val Phe Ala Asp Pro Phe Cys Pro Tyr Cys Lys Gln
 145 150 155 160
 Phe Trp Ala Glu Ala Gln Pro Trp Val Lys Ala Gly Lys Val Gln Leu
 165 170 175
 Asn Thr Leu Leu Val Ala Phe Leu Asn Pro Asn Ser Gly Arg Asn Ala
 180 185 190
 Ser Ala Ile Leu Asn Ala Lys Asp Pro Val Ser Ala Trp Lys Ala Tyr
 195 200 205
 Glu Leu Ser Gly Gly Lys Lys Leu Pro Lys Pro Glu Gly Ala Ala Ser
 210 215 220
 Arg Glu Thr Val Glu Ile Leu Gln Asn His Gln Thr Leu Met Asp Ser
 225 230 235 240

[illegible]

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<210> 7214
<211> 197
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7215
<211> 298
<212> PRT
<213> Enterobacter cloacae
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<400> 7215																
Arg	His	Gly	Met	Gln	Phe	Arg	Leu	Met	Arg	Asn	Phe	Ile	Val	Val	Ala	
1				5					10					15		
Glu	Glu	Leu	His	Met	His	Arg	Ala	Ala	Glu	Arg	Leu	Asn	Met	Ala	Gln	
			20					25					30			
Pro	Ala	Leu	Ser	Gln	Gln	Ile	Lys	Thr	Leu	Glu	Asp	Arg	Leu	Gly	Val	
		35					40					45				
Met	Leu	Phe	Ser	Arg	Ala	Asn	Arg	Arg	Leu	Thr	Leu	Thr	Pro	Ala	Gly	
	50					55					60					
Glu	Ala	Phe	Leu	Ser	Lys	Ala	Arg	Val	Ala	Ile	Leu	Met	Thr	Asp	Gln	
65					70					75					80	
Ala	Ile	Leu	Asp	Ala	Arg	Gln	Thr	Ala	Arg	Gly	Glu	Gln	Gly	Val	Leu	
				85					90					95		
Asn	Leu	Gly	Cys	Val	Ser	Ser	Ala	Ile	Phe	Asp	Ser	Lys	Leu	Pro	Ala	
			100					105					110			
Ala	Leu	Arg	Leu	Leu	His	Glu	Lys	Trp	Pro	Ala	Ile	Ser	Leu	Ser	Met	

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<210> 7216
<211> 516
<212> PRT
<213> Enterobacter cloacae
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<400> 7216															
Met 1	Met	Gln	Leu	Ile 5	Ala	Leu	Phe	Val	Arg 10	Leu	Arg	Met	Asp	Ala 15	Phe
Ile	Arg	Gly	Gly 20	Lys	Asn	Met	Glu	Asn 25	His	Ile	Asn	Asp	Leu 30	Arg	Ser
Ala	Ile	Glu 35	Leu	Leu	Lys	Arg	His 40	Glu	Gly	Gln	Tyr	Leu 45	Glu	Thr	Ser
His	Pro 50	Val	Asp	Pro	Asp	Ala 55	Glu	Leu	Ala	Gly	Val 60	Tyr	Arg	His	Ile
Gly 65	Ala	Gly	Gly	Thr	Val 70	Lys	Arg	Pro	Thr	Arg	Ile 75	Gly	Pro	Ala 80	Met
Met	Phe	Asn	Ala	Ile 85	Lys	Gly	Tyr	Pro	Asp 90	Ser	Arg	Ile	Leu 95	Val	Gly
Met	His	Ala	Ser 100	Arg	Glu	Arg	Ala	Ala 105	Leu	Leu	Leu	Gly	Cys 110	Asp	Pro
Ser	Glu	Leu 115	Ala	Lys	His	Val	Gly 120	Gln	Ala	Val	Lys	Asn 125	Pro	Ile	Ala
Pro	Val 130	Val	Val	Pro	Ala	Ala 135	Gln	Ala	Pro	Cys	Gln 140	Glu	Gln	Val	Phe
Tyr 145	Ala	Asp	Asn	Pro	Asp 150	Phe	Asp	Leu	Arg	Lys 155	Leu	Leu	Pro	Ala 160	Pro
Thr	Asn	Thr	Pro 165	Ile	Asp	Ala	Gly	Pro	Phe 170	Cys	Leu	Gly	Leu 175	Val	
Leu	Ala	Ser	Asp 180	Pro	Glu	Asp	Ala 185	Ser	Leu	Thr	Asp	Val 190	Thr	Ile	His
Arg	Leu	Cys 195	Val	Gln	Glu	Arg	Asp 200	Glu	Leu	Ser	Met	Phe 205	Leu	Ala	Ala
Gly	Arg 210	His	Ile	Glu	Val	Phe 215	Arg	Lys	Lys	Ala	Glu 220	Glu	Ala	Gly	Lys
Pro 225	Leu	Pro	Val	Thr	Ile 230	Asn	Met	Gly	Leu	Asp 235	Pro	Ala	Ile	Tyr	Ile
Gly	Ala	Cys	Phe	Glu	Ala	Pro	Thr	Thr	Pro	Phe	Gly	Tyr	Asn	Glu	Leu

			245					250					255				
Gly	Val	Ala	Gly	Ala	Leu	Arg	Gln	Thr	Pro	Val	Glu	Leu	Val	Gln	Gly		
			260						265						270		
Val	Ala	Val	Asn	Glu	Lys	Ala	Ile	Ala	Arg	Ala	Glu	Ile	Ile	Ile	Glu		
			275						280						285		
Gly	Glu	Leu	Leu	Pro	Gly	Val	Arg	Val	Glu	Glu	Asp	Gln	His	Thr	His		
			290						295						300		
Thr	Gly	His	Ala	Met	Pro	Glu	Phe	Pro	Gly	Tyr	Cys	Gly	Glu	Ala	Asn		
305					310						315						320
Pro	Ser	Leu	Pro	Val	Ile	Lys	Val	Lys	Ala	Val	Thr	Met	Arg	His	Gln		
				325						330						335	
Ala	Ile	Leu	Gln	Thr	Leu	Val	Gly	Pro	Gly	Glu	Glu	His	Thr	Thr	Leu		
			340						345						350		
Ala	Gly	Leu	Pro	Thr	Glu	Ala	Ser	Ile	Arg	Asn	Ala	Val	Glu	Glu	Ala		
			355						360						365		
Ile	Pro	Gly	Phe	Leu	Gln	Asn	Val	Tyr	Ala	His	Thr	Ala	Gly	Gly	Gly		
			370						375						380		
Lys	Phe	Leu	Gly	Val	Leu	Gln	Val	Lys	Lys	Arg	Gln	Pro	Ser	Asp	Glu		
385					390						395						400
Gly	Arg	Gln	Gly	Gln	Ala	Ala	Leu	Ile	Ala	Leu	Ala	Thr	Tyr	Ser	Glu		
			405						410						415		
Leu	Lys	Asn	Ile	Ile	Leu	Val	Asp	Glu	Asp	Val	Asp	Ile	Phe	Asp	Ser		
			420						425						430		
Asp	Asp	Ile	Leu	Trp	Ala	Met	Thr	Thr	Arg	Met	Gln	Gly	Asp	Val	Ser		
			435						440						445		
Ile	Thr	His	Leu	Pro	Gly	Ile	Arg	Gly	His	Gln	Leu	Asp	Pro	Ser	Gln		
			450						455						460		
Ala	Pro	Asp	Tyr	Ser	Pro	Ser	Ile	Arg	Gly	Asn	Gly	Ile	Thr	Cys	Lys		
465					470						475						480
Thr	Ile	Phe	Asp	Cys	Thr	Val	Pro	Trp	Ala	Leu	Lys	Ser	Arg	Phe	Glu		
			485						490						495		
Arg	Ala	Pro	Phe	Met	Glu	Val	Asp	Pro	Thr	Pro	Trp	Ala	Pro	Glu	Leu		
			500						505						510		
Phe	Lys	Lys															
			515														

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<210> 7217
<211> 369
<212> PRT
<213> Enterobacter cloacae
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<400> 7217															
Arg	Arg	Tyr	Arg	Arg	Ala	Val	Lys	His	Pro	Leu	Arg	Pro	Ile	His	Ser
1				5					10					15	
Met	Asp	Arg	Ser	His	Ser	Leu	Pro	Gly	Gly	Ser	Gln	Lys	Ser	Gln	Leu
			20					25					30		
Asn	Tyr	Asp	Glu	Leu	Thr	Ile	Glu	Glu	Pro	Ile	Met	Phe	Thr	Val	Lys
		35					40					45			
Lys	Leu	Ala	Ile	Ser	Thr	Leu	Leu	Ala	Gly	Ser	Val	Leu	Phe	Phe	Pro
	50					55					60				
Ala	Ile	His	Ala	Val	Ala	Ser	Val	Pro	Gln	His	Val	Val	Lys	Gln	Gln
65					70					75					80
Ala	Gly	Gly	Tyr	Ser	Val	Gln	Val	Gly	Asp	Thr	Ile	Val	Thr	Ala	Phe
				85					90					95	
Thr	Asp	Gly	Ser	Val	Pro	Gln	Asp	Leu	His	Ala	Leu	Leu	Arg	Arg	Thr
			100					105					110		
Thr	Ala	Glu	Asn	Thr	Asp	Ala	Leu	Leu	Ala	Lys	Asn	Phe	Gln	Ala	Asn
		115					120					125			
Pro	Val	Glu	Ala	Ser	Ile	Asn	Ala	Phe	Tyr	Ile	Ala	Ile	Pro	Gly	His
	130					135					140				
Lys	Ile	Leu	Val	Asp	Thr	Gly	Ser	Gly	Gln	Leu	Phe	Gly	Pro	Gly	Lys

145					150					155				160	
Gly	Gly	Arg	Leu	Ile	Glu	Ser	Leu	Ala	Thr	Gln	Gly	Ile	Lys	Pro	Glu
				165					170					175	
Asp	Ile	Thr	Asp	Ile	Leu	Ile	Thr	His	Ala	His	Ser	Asp	His	Ala	Gly
			180					185					190		
Gly	Leu	Val	Lys	Asp	Gly	Gln	Arg	Val	Phe	Thr	Arg	Ala	Gln	Val	Tyr
		195					200					205			
Val	Gly	Lys	Pro	Asp	Ile	Asp	Phe	Phe	Phe	Asn	Asp	Glu	Asn	Gln	Lys
	210					215					220				
Lys	Ser	Gly	Tyr	Asp	Gln	Asn	Tyr	Phe	Asp	Val	Ala	His	Lys	Thr	Leu
225					230					235					240
Lys	Pro	Tyr	Leu	Asp	Ala	Gly	Lys	Val	Thr	Thr	Phe	Ser	Gly	Thr	Glu
				245					250					255	
Gln	Leu	Leu	Pro	Gly	Ile	Ser	Gly	Thr	Val	His	Pro	Gly	His	Thr	Pro
			260					265					270		
Gly	Ser	Ala	Phe	Tyr	Thr	Leu	Glu	Ser	Lys	Gly	Glu	Lys	Met	Thr	Phe
		275					280					285			
Val	Gly	Asp	Ile	Ile	His	Val	Ala	Ala	Val	Gln	Phe	Pro	Gln	Pro	Asn
	290					295					300				
Val	Thr	Ile	Ala	Tyr	Asp	Glu	Asp	Gln	Asp	Gly	Ala	Ala	Arg	Val	Arg
305					310					315					320
Asn	Ala	Ala	Phe	Ala	Glu	Phe	Val	Lys	Asn	Lys	Ala	Leu	Ile	Ala	Ala
				325					330					335	
Pro	His	Leu	Pro	Phe	Pro	Gly	Ile	Gly	Tyr	Val	Thr	Lys	Gly	Glu	Arg
			340					345					350		
Asp	Gly	Tyr	Ala	Trp	Val	Pro	Val	Thr	Tyr	Thr	Asn	Arg	Asp	Ala	Lys
		355					360					365			

<210> 7218

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 7218

Arg	His	Leu	Gln	Glu	Gly	Ala	Val	Ile	Ile	Asn	Thr	Thr	Ser	Val	Gln
1				5					10					15	
Ala	Phe	Lys	Pro	Ser	Ala	Ile	Leu	Val	Asp	Tyr	Ala	Gln	Thr	Lys	Ala
			20					25				30			
Cys	Asn	Val	Ala	Phe	Thr	Lys	Ser	Leu	Ala	Gln	Gln	Leu	Gly	Pro	Arg
		35					40					45			
Gly	Ile	Arg	Val	Asn	Ala	Val	Ala	Pro	Gly	Pro	Tyr	Trp	Thr	Pro	Leu
	50					55					60				
Gln	Ser	Ser	Gly	Gly	Gln	Pro	Gln	Ser	Lys	Val	Gln	Lys	Phe	Gly	Glu
65					70					75					80
Asp	Thr	Pro	Leu	Gly	Arg	Pro	Gly	Gln	Pro	Val	Glu	Ile	Ala	Pro	Leu
				85					90					95	
Tyr	Val	Leu	Phe	Ala	Ser	Asp	Thr	Cys	Ser	Tyr	Ala	Ser	Gly	Gln	Val
			100					105					110		
Trp	Cys	Ser	Asp	Gly	Gly	Thr	Gly	Val	Leu						
		115					120								

<210> 7219

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7219

Pro	Ile	Pro	Thr	Val	Thr	Gln	Asn	Lys	Met	Ser	Pro	Ser	Asp	Met	Asp
1				5					10					15	

Met Asp Leu Ile Leu Thr Leu Asp Ala Leu Leu Arg Asp Gln Asn Ile
 20 25 30
 Thr His Ala Ala Arg Leu Gly Ile Ser Gln Pro Ala Met Ser Ala
 35 40 45
 Arg Leu Ala Arg Leu Arg Val Leu Phe Gly Glu Pro Leu Phe Val Pro
 50 55 60
 Ser Pro His Gly Arg Gly Val Leu Pro Thr Pro Arg Ala Glu Ala Leu
 65 70 75 80
 Arg Pro Gln Val Ala Thr Val Leu Gln Gly Ile Ser Ala Met Leu Glu
 85 90 95
 Pro Thr Thr Phe Asn Ala Gln Asn Ser Asn Arg Thr Phe Val Ile Ala
 100 105 110
 Leu His Glu Asn Pro Ala Leu Met Leu Gly Ala Glu Leu Gln Asn Gln
 115 120 125
 Ile Ser Ser Ala Ala Pro Gly Ile Arg Leu Arg Phe Ala Leu Pro Glu
 130 135 140
 Thr Gln Leu Leu Pro Ala Gln Met Glu Asn Gly Asp Val Asp Ile Tyr
 145 150 155 160
 Val Gly Val Asn Ala Val Ala His Asp Ala Trp Val Arg Arg Lys Leu
 165 170 175
 Phe Asp Asp Glu Tyr Ala Thr Ala Gln Arg Lys Gly His Pro Arg Gly
 180 185 190
 Thr Gly Pro Met Asp Leu Asp Ser Tyr Cys Ser Leu Ser His Leu Val
 195 200 205
 Val Ser Ser Glu Gly Asp Pro Phe Ala Gly Phe Val Asp Gln His Leu
 210 215 220
 Ala Gly Leu Gly His Gln Arg Asn Val Val Met Ser Thr Gln Ser Tyr
 225 230 235 240
 Ala Met Ala Pro Ala Ile Val Ala Gly Thr Asp Leu Leu Cys Thr Leu
 245 250 255
 Pro Arg Arg Met Leu Leu Arg Phe Thr Gln Thr Leu Asp Ile Phe Pro
 260 265 270
 Pro Pro Leu Asp Leu Pro Pro Ile Val Ile Gly Met Tyr Trp His Pro
 275 280 285
 Lys Asn Ser Gln Asp Pro Ala Asn Arg Trp Leu Arg Glu Gln Leu Leu
 290 295 300
 Gln Ala Ala Gly Arg Gln Val
 305 310

<210> 7220

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7220

Ser Ser Cys Ala Ala Pro His Gly Arg Gly Arg Lys Leu Lys Pro Ser
 1 5 10 15
 Thr Ser Thr Pro Phe Thr Met Thr Val Thr Gly Ser Arg Thr Asn Arg
 20 25 30
 Arg Leu Ile Pro Gly Arg Ile Ala Gly His Pro Gly Ala Asn Thr Gln
 35 40 45
 Met Met Arg His Val Lys Arg Thr Gly Ala Leu Leu Gly Cys Ala Leu
 50 55 60
 Leu Leu Val Ser Cys Thr Ser Lys Pro Pro Lys Ser Leu Val Thr Pro
 65 70 75 80
 Leu Pro Gln Ala Lys Pro Val Gln Gln Thr Asn Glu Pro Met Arg Gly
 85 90 95
 Ile Trp Leu Ala Thr Val Ser Arg Leu Asp Trp Pro Pro Val Ser Ser
 100 105 110
 Val Asn Gly Arg Ser Ala Asp Gln Arg Ile Ala Gln Gln Gln Arg Ala
 115 120 125

Leu Thr Asp Lys Leu Asp Lys Leu Lys Asn Leu Gly Ile Asn Thr Val
 130 135 140
 Phe Phe Gln Val Lys Pro Asp Ser Thr Ala Leu Trp Ala Ser Lys Ile
 145 150 155 160
 Leu Pro Trp Ser Asp Thr Leu Thr Gly Thr Ile Gly Glu Asp Pro Gly
 165 170 175
 Tyr Asp Pro Leu Gln Phe Met Leu Asp Glu Ala His Lys Arg Gly Met
 180 185 190
 Lys Val His Ala Trp Phe Asn Pro Tyr Arg Val Ser Thr Asn Thr Lys
 195 200 205
 Pro Ser Thr Ile Ala Ala Leu Asn Arg Thr Ser Ser Leu His Pro Ser
 210 215 220
 Ser Val Tyr Val Leu His Pro Glu Trp Ile Arg Thr Ser Gly Asp Arg
 225 230 235 240
 Phe Val Leu Asp Pro Gly Ile Pro Glu Val Arg Asp Trp Ile Thr Gln
 245 250 255
 Val Val Met Glu Val Val Asn His Tyr Pro Val Asp Gly Val Gln Phe
 260 265 270
 Asp Asp Tyr Phe Tyr Thr Glu Thr Pro Gly Ser Pro Leu Asn Asp Ala
 275 280 285
 Trp Thr Phe Arg Arg Tyr Gly Glu Gly Phe Ser Ser Lys Ala Asp Trp
 290 295 300
 Arg Arg His Asn Thr Gln Gln Leu Ile Val Gln Val Ser Arg Ala Ile
 305 310 315 320
 Lys Gln Ala Lys Pro Glu Val Glu Phe Gly Val Ser Pro Ala Gly Val
 325 330 335
 Trp Arg Asn Arg Ser Phe Asp Pro Ala Gly Ser Asp Thr Arg Gly Ala
 340 345 350
 Ala Ala Tyr Asp Glu Ser Tyr Ala Asp Thr Arg Lys Trp Val Gln Gln
 355 360 365
 Gly Leu Leu Asp Tyr Ile Ala Pro Gln Ile Tyr Trp Pro Phe Ala Arg
 370 375 380
 Asp Ala Ala Arg Tyr Asp Val Leu Thr Lys Trp Trp Ala Asp Val Val
 385 390 395 400
 Lys Pro Thr His Thr Arg Leu Tyr Ile Gly Ile Ala Phe Tyr Lys Val
 405 410 415
 Gly Ala Pro Ser Arg Asn Glu Pro Asp Trp Thr Val Asn Gly Gly Ile
 420 425 430
 Pro Glu Leu Lys Lys Gln Leu Asp Leu Asn Asp Ser Leu Pro Asp Val
 435 440 445
 Lys Gly Thr Ile Leu Phe Arg Glu Asp Tyr Leu Asn Gln Pro Gln Thr
 450 455 460
 Gln Glu Ala Val Asn Tyr Leu Arg Gly Arg Trp Gly Ser
 465 470 475

<210> 7221

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7221

Leu His Gly Leu Pro Leu His Arg Tyr Gly His Phe Ser Arg His Pro
 1 5 10 15
 Ala Pro Ala Tyr Arg Pro Gly Lys Arg Cys Arg Cys Tyr Ser Pro Pro
 20 25 30
 Ser Arg Ser Ala Leu Pro Cys Trp Arg Pro Ser Gly Ser Gly Pro Lys
 35 40 45
 Pro Val Ala Arg Tyr Gly Arg Pro Gly Arg Tyr Cys Arg Arg Gln Phe
 50 55 60
 Pro Ala Leu His Ala Ser Arg Phe Gly Trp His Arg Ala Pro Glu Lys
 65 70 75 80

Trp Trp Arg Ala Ala Pro Gly Ala Ser Ala Pro Ser Arg Thr Ser Gly
 85 90 95
 Asp Arg Phe His Ser Arg Asn His Ala
 100 105

<210> 7222

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7222

Gln Glu Leu Arg Lys Arg Ser Arg Ile Met Ala Val Gln Thr Lys Val
 1 5 10 15
 Val Arg Phe Phe Met Ala Gly Ala Val Ala Ile Ala Leu Ser Gly Cys
 20 25 30
 Val Thr Val Pro Asp Ala Ile Lys Gly Thr Ser Pro Thr Pro Gln Gln
 35 40 45
 Asp Leu Val Arg Val Met Asn Ala Pro Glu Leu Tyr Val Gly Gln Glu
 50 55 60
 Ala Arg Phe Gly Gly Lys Val Val Glu Val Leu Asn Gln Gln Gly Lys
 65 70 75 80
 Thr Arg Leu Glu Ile Ala Thr Val Pro Leu Asp Asp Gly Ala Arg Pro
 85 90 95
 Val Leu Gly Glu Ala Ser Arg Gly Arg Ile Tyr Ala Asp Val Ser Gly
 100 105 110
 Phe Leu Asp Pro Val Asp Phe Arg Gly Gln Leu Val Thr Val Val Gly
 115 120 125
 Pro Ile Thr Gly Ser Val Ala Gly Lys Ile Gly Asn Thr Pro Tyr Lys
 130 135 140
 Phe Met Thr Met Gln Val Asn Gly Tyr Lys Arg Trp Arg Ile Ala Gln
 145 150 155 160
 Gln Val Val Met Pro Pro Gln Pro Ile Asp Pro Trp Met Trp Gly Pro
 165 170 175
 His Pro Tyr Arg Tyr Gly Tyr Gly Gly Trp Gly Trp Tyr Asn Pro Gly
 180 185 190
 Pro Ala Gln Val Gln Thr Ile Val Thr Glu
 195 200

<210> 7223

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 7223

Gln Glu Arg Val Met Glu Phe Leu Met Asp Pro Ser Ile Trp Val Gly
 1 5 10 15
 Leu Leu Thr Leu Val Val Leu Glu Ile Val Leu Gly Ile Asp Asn Leu
 20 25 30
 Val Phe Ile Ala Ile Leu Ala Asp Lys Leu Pro Pro Lys Gln Arg Asp
 35 40 45
 Lys Ala Arg Leu Ile Gly Leu Ser Leu Ala Leu Ile Met Arg Leu Gly
 50 55 60
 Leu Leu Ser Val Ile Ser Trp Met Val Thr Leu Thr Lys Pro Leu Phe
 65 70 75 80
 Thr Val Met Asp Phe Thr Phe Ser Gly Arg Asp Leu Ile Met Leu Val
 85 90 95
 Gly Gly Leu Phe Leu Leu Phe Lys Ala Thr Thr Glu Leu His Glu Arg
 100 105 110
 Leu Glu Asn Arg Gln His Asp Asp Gly His Gly Lys Gly Tyr Ala Ser
 115 120 125
 Phe Trp Val Val Val Leu Gln Ile Val Val Leu Asp Ala Val Phe Ser

130	135	140
Leu Asp Ala Val Ile Thr Ala Val Gly Met Val Asn His Leu Pro Val		
145	150	155
Met Met Ala Ala Val Ile Ala Met Ala Val Met Leu Leu Ala Ser		
	165	170
Lys Pro Leu Thr Arg Phe Val Asn Gln His Pro Thr Val Val Val Leu		
	180	185
Cys Leu Ser Phe Leu Leu Met Ile Gly Leu Ser Leu Val Ala Glu Gly		
	195	200
Phe Gly Phe His Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe		
	210	215
Ser Ile Leu Ile Glu Leu Phe Asn Gln Ile Ala Arg Arg Asn Phe Ile		
225	230	235
Lys Gln Gln Ser Asn Gln Pro Leu Arg Ala Arg Thr Ala Asp Ala Ile		
	245	250
Leu Arg Leu Met Gly Gly Arg Arg Gln Val Asn Val Gln Ala Asp Asn		
	260	265
Glu Asn Arg Asn Pro Val Pro Val Pro Glu Gly Ala Phe Val Glu Glu		
	275	280
Glu Arg Tyr Met Ile Asn Gly Val Leu Ser Leu Ala Ser Arg Ser Leu		
	290	295
Arg Gly Ile Met Thr Pro Arg Gly Glu Ile Ser Trp Val Asp Ala Asn		
305	310	315
Leu Ser Val Asp Glu Ile Arg Gln Gln Leu Leu Ser Ser Pro His Ser		
	325	330
Leu Phe Pro Val Cys Arg Gly Glu Leu Asp Glu Ile Ile Gly Val Val		
	340	345
Arg Ala Lys Glu Met Leu Val Ala Leu Glu Glu Gly Val Asn Val Glu		
	355	360
Ala Val Ala Ala Ala Ser Pro Ala Ile Val Val Pro Glu Thr Leu Asp		
	370	375
Pro Ile Asn Leu Leu Gly Val Leu Arg Arg Ala Arg Gly Ser Phe Val		
385	390	395
Ile Val Thr Asn Glu Phe Gly Val Val Gln Gly Leu Val Thr Pro Leu		
	405	410
Asp Val Leu Glu Ala Ile Ala Gly Glu Phe Pro Asp Ala Asp Glu Thr		
	420	425
Pro Glu Ile Val Ala Asp Gly Asp Gly Trp Leu Val Lys Gly Thr Thr		
	435	440
Asp Leu His Ala Leu Ser His Thr Leu Gly Val Glu Asn Val Val Asn		
	450	455
Asp Asp Glu Asp Ile Ala Thr Val Ala Gly Leu Val Ile Ser Val Asn		
465	470	475
Gly Gln Ile Pro Arg Ile Gly Asp Val Leu Glu Leu Pro Pro Leu Gln		
	485	490
Ile Thr Ile Val Glu Ala Asn Asp Tyr Arg Val Asp Met Val Arg Ile		
	500	505
Val Lys Glu His Ser Ala His Asp Glu Glu Glu		
	515	520

<210> 7224

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 7224

Gly Leu Ser Phe Thr Leu Ile Ala Gln Thr Pro Val Lys Pro Ala Phe
1
Phe Met Gly Ala Asn Lys Arg Glu Ser Asp Leu Asn Tyr Gln Met Ile
20
Thr Thr Asn Asp Glu Leu Ala Ser Leu Cys Glu Val Thr Arg Glu Phe


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<210> 7225
<211> 65
<212> PRT
<213> Enterobacter cloacae
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Gln	Glu	Leu	Thr	Met	Phe	Ala	Gly	Leu	Pro	Ser	Leu	Ser	His	Asp	Gln
1				5					10					15	
Gln	Gln	Lys	Ala	Val	Glu	Arg	Ile	Gln	Glu	Leu	Met	Ser	Gln	Gly	Met
			20					25					30		
Ser	Ser	Gly	Gln	Ala	Ile	Ser	Gln	Val	Ala	Glu	Glu	Leu	Arg	Ala	Thr
		35					40					45			
His	Thr	Gly	Glu	Arg	Ile	Val	Ala	Arg	Phe	Glu	Asp	Glu	Asp	Glu	Glu

50

55

60

65

<210> 7226

<211> 640

<212> PRT

<213> Enterobacter cloacae

<400> 7226

Glu	Asn	Thr	Val	Ala	Asp	Asp	Phe	Ser	Pro	Glu	Gly	Gln	Leu	Ala	Gln
1				5					10					15	
Ala	Ile	Pro	Gly	Phe	Lys	Pro	Arg	Glu	Pro	Gln	Arg	Gln	Met	Ala	His
			20					25					30		
Ala	Val	Ala	His	Ala	Ile	Asp	Lys	Ala	Gln	Pro	Leu	Val	Val	Glu	Ala
		35					40					45			
Gly	Thr	Gly	Thr	Gly	Lys	Thr	Tyr	Ala	Tyr	Leu	Ala	Pro	Ala	Leu	Arg
	50					55					60				
Ala	Lys	Lys	Lys	Val	Ile	Ile	Ser	Thr	Gly	Ser	Lys	Ala	Leu	Gln	Asp
65					70				75						80
Gln	Leu	Tyr	Ser	Arg	Asp	Leu	Pro	Thr	Val	Ala	Lys	Ala	Leu	Lys	Tyr
				85					90					95	
Lys	Gly	Arg	Leu	Ala	Leu	Leu	Lys	Gly	Arg	Ser	Asn	Tyr	Leu	Cys	Leu
			100					105					110		
Glu	Arg	Leu	Glu	Gln	Gln	Ala	Leu	Ala	Gly	Gly	Asp	Leu	Pro	Val	Gln
		115					120					125			
Thr	Leu	Ser	Asp	Val	Ile	Val	Leu	Arg	Ala	Trp	Ala	Asn	Gln	Thr	Glu
	130					135					140				
Glu	Gly	Asp	Ile	Ser	Thr	Cys	Ala	Ser	Val	Pro	Glu	Asp	Ser	Pro	Ala
145					150					155					160
Trp	Pro	Leu	Val	Thr	Ser	Thr	Asn	Asp	Asn	Cys	Leu	Gly	Ser	Asp	Cys
				165					170					175	
Pro	Leu	Tyr	Lys	Asp	Cys	Phe	Val	Val	Lys	Ala	Arg	Lys	Thr	Ala	Met
			180					185					190		
Asp	Ala	Asp	Val	Val	Val	Val	Asn	His	His	Leu	Phe	Leu	Ala	Asp	Met
		195					200					205			
Val	Val	Lys	Asp	Ser	Gly	Phe	Gly	Glu	Leu	Ile	Pro	Glu	Ala	Glu	Val
	210					215					220				
Met	Ile	Phe	Asp	Glu	Ala	His	Gln	Leu	Pro	Asp	Ile	Ala	Ser	Gln	Tyr
225					230					235					240
Phe	Gly	Gln	Ser	Leu	Ser	Ser	Arg	Gln	Leu	Gln	Asp	Leu	Ala	Lys	Asp
				245					250					255	
Ile	Thr	Ile	Ala	Tyr	Arg	Thr	Glu	Leu	Lys	Asp	Thr	Gln	Gln	Leu	Gln
			260				265						270		
Lys	Cys	Ala	Asp	Arg	Leu	Ala	Gln	Cys	Ala	Gln	Asp	Phe	Arg	Leu	Gln
		275					280				285				
Leu	Gly	Glu	Pro	Gly	Tyr	Arg	Gly	Asn	Leu	Arg	Glu	Leu	Leu	Ala	Asp
	290					295					300				
Lys	Asn	Ile	Gln	Arg	Ala	Leu	Leu	Leu	Leu	Asp	Asp	Ala	Leu	Glu	Leu
305					310					315					320
Cys	Tyr	Asp	Val	Ala	Lys	Leu	Ser	Leu	Gly	Arg	Ser	Ala	Leu	Leu	Asp
				325					330					335	
Ala	Ala	Phe	Glu	Arg	Ala	Thr	Leu	Tyr	Arg	Gly	Arg	Leu	Lys	Arg	Leu
			340					345					350		
Lys	Glu	Ile	Asn	Gln	Pro	Gly	Tyr	Ser	Tyr	Trp	Tyr	Glu	Cys	Thr	Ser
		355					360					365			
Arg	His	Phe	Thr	Leu	Ala	Leu	Thr	Pro	Leu	Thr	Val	Ala	Asp	Lys	Phe
	370					375					380				
Lys	Glu	Val	Met	Ala	Gln	Lys	Pro	Gly	Thr	Trp	Val	Phe	Thr	Ser	Ala
385					390					395					400
Thr	Leu	Ser	Val	Asn	Asp	Asp	Leu	His	His	Phe	Thr	Glu	Arg	Leu	Gly

				405					410					415			
Ile	Glu	Gln	Ala	Glu	Ser	Leu	Leu	Leu	Pro	Ser	Pro	Phe	Asp	Tyr	Glu		
			420					425					430				
Arg	Gln	Ala	Leu	Leu	Cys	Val	Pro	Arg	Asn	Leu	Pro	Leu	Pro	Asn	Gln		
		435					440					445					
Pro	Gly	Ala	Ala	Arg	His	Leu	Ala	Ala	Met	Leu	Lys	Pro	Met	Ile	Glu		
	450					455					460						
Ala	Asn	Asn	Gly	Arg	Cys	Phe	Met	Leu	Cys	Thr	Ser	His	Ala	Met	Met		
465					470					475					480		
Arg	Asp	Leu	Ala	Glu	Gln	Phe	Arg	Ala	Thr	Met	Thr	Leu	Pro	Val	Leu		
			485						490						495		
Leu	Gln	Gly	Glu	Thr	Ser	Lys	Gly	Gln	Leu	Leu	Gln	Gln	Phe	Val	Ser		
			500					505					510				
Ala	Gly	Asn	Ala	Leu	Leu	Val	Ala	Thr	Ser	Ser	Phe	Trp	Glu	Gly	Val		
		515					520					525					
Asp	Val	Arg	Gly	Asp	Thr	Leu	Ser	Leu	Val	Ile	Ile	Asp	Lys	Leu	Pro		
	530					535					540						
Phe	Thr	Ser	Pro	Asp	Asp	Pro	Leu	Leu	Lys	Ala	Arg	Met	Glu	Asp	Cys		
545					550					555					560		
Arg	Leu	Arg	Gly	Gly	Asp	Pro	Phe	Asp	Asp	Val	Gln	Leu	Pro	Asp	Ala		
			565						570						575		
Val	Ile	Thr	Leu	Lys	Gln	Gly	Val	Gly	Arg	Leu	Ile	Arg	Asp	Val	Thr		
			580					585					590				
Asp	Arg	Gly	Val	Leu	Val	Ile	Cys	Asp	Asn	Arg	Leu	Val	Met	Arg	Pro		
		595					600					605					
Tyr	Gly	Ala	Thr	Phe	Leu	Ala	Ser	Leu	Pro	Pro	Ala	Pro	Arg	Thr	Arg		
	610					615					620						
Asp	Ile	Lys	Arg	Ala	Val	Arg	Phe	Leu	Ala	Asn	Pro	Thr	Ala	Glu			
625					630					635					640		

<210> 7227

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7227

Leu	Thr	Ile	Ala	Arg	Ala	Arg	Arg	Leu	Met	Arg	Ile	Leu	Ala	Ile	Asp		
1			5					10						15			
Thr	Ala	Thr	Glu	Ala	Cys	Ser	Val	Ala	Leu	Trp	Asn	Asp	Gly	Thr	Ile		
			20					25					30				
Phe	Ala	His	Phe	Glu	Glu	Cys	Pro	Arg	Glu	His	Thr	Gln	Arg	Ile	Leu		
		35					40					45					
Pro	Leu	Val	Lys	Thr	Ile	Leu	Thr	Glu	Gly	Asn	Thr	Ala	Leu	Thr	Asp		
	50					55					60						
Leu	Asp	Ala	Leu	Ala	Tyr	Gly	Arg	Gly	Pro	Gly	Ser	Phe	Thr	Gly	Val		
65					70				75						80		
Arg	Ile	Gly	Ile	Gly	Ile	Ala	Gln	Gly	Leu	Ala	Leu	Gly	Ala	Asp	Leu		
			85					90						95			
Pro	Met	Ile	Gly	Val	Ser	Thr	Leu	Ala	Thr	Met	Ala	Gln	Gly	Ala	Trp		
			100					105					110				
Arg	Met	Thr	Gly	Ala	Thr	Arg	Val	Leu	Ala	Ala	Ile	Asp	Ala	Arg	Met		
			115					120					125				
Gly	Glu	Val	Tyr	Trp	Ala	Glu	Tyr	Thr	Arg	Asp	Glu	Asn	Gly	Val	Trp		
			130				135					140					
His	Gly	Glu	Glu	Thr	Glu	Ala	Val	Leu	Lys	Pro	Glu	Ala	Val	Thr	Gly		
145					150					155					160		
Arg	Leu	Lys	Gln	Leu	Ser	Gly	Glu	Trp	Ala	Thr	Val	Gly	Thr	Gly	Trp		
			165					170						175			
Ala	Ala	Trp	Pro	Glu	Met	Ala	Lys	Asp	Thr	Gly	Leu	Thr	Leu	Val	Asp		
			180					185					190				
Gly	Asn	Met	Leu	Leu	Pro	Ala	Ala	Glu	Asp	Met	Leu	Pro	Ile	Ala	Cys		

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<210> 7228
<211> 585
<212> PRT
<213> Enterobacter cloacae
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Tyr 1	Asn	Val	Asn	Lys 5	Leu	Phe	Ile	Ile	Gly 10	Ala	Val	Met	Thr	Thr 15	Asn
Thr	His	Phe	Arg 20	Gly	Asp	Ala	Leu	Lys 25	Lys	Val	Trp	Leu	Asn 30	Arg	Tyr
Pro	Ala	Asp 35	Val	Pro	Ala	Glu	Ile 40	Asn	Pro	Asp	Arg	Tyr 45	Gln	Ser	Leu
Ile	Glu 50	Leu	Phe	Glu	His	Ser 55	Val	Arg	Arg	Tyr	Ala 60	Asp	Gln	Pro	Ala
Phe 65	Val	Asn	Met	Gly	Glu 70	Val	Met	Thr	Phe	Arg 75	Lys	Leu	Glu	Glu	Arg 80
Ser	Arg	Ala	Phe 85	Ala	Ala	Tyr	Leu	Gln	Glu 90	Gly	Leu	Gly	Leu	Gln 95	Lys
Gly	Asp	Arg	Val 100	Ala	Leu	Met	Met	Pro 105	Asn	Leu	Leu	Gln	Tyr 110	Pro	Val
Ala	Leu	Phe 115	Gly	Ile	Leu	Arg	Ala 120	Gly	Met	Ile	Val	Val 125	Asn	Val	Asn
Pro	Leu 130	Tyr	Thr	Pro	Arg	Glu 135	Leu	Glu	His	Gln	Leu 140	Asn	Asp	Ser	Gly
Ala 145	Ala	Ala	Ile	Val	Ile 150	Val	Ser	Asn	Phe	Ala 155	His	Thr	Leu	Glu	Lys 160
Val	Val	Glu	Lys 165	Thr	Gln	Val	Lys	His	Val 170	Ile	Leu	Thr	Arg 175	Met	Gly
Asp	Gln	Leu 180	Ser	Thr	Ala	Lys	Gly 185	Thr	Leu	Val	Asn	Phe 190	Val	Val	Lys
Tyr	Val 195	Lys	Arg	Leu	Val	Pro	Lys 200	Tyr	His	Leu	Pro 205	Asp	Ala	Ile	Ser
Phe	Arg 210	Arg	Ala	Leu	His	Ala 215	Gly	Tyr	Arg	Met	Gln 220	Tyr	Val	Lys	Pro
Glu 225	Ile	Val	Ser	Glu	Asp 230	Leu	Ala	Phe	Leu	Gln 235	Tyr	Thr	Gly	Gly	Thr 240
Thr	Gly 245	Val	Ala	Lys	Gly	Ala	Met	Leu	Thr 250	His	Arg	Asn	Met 255	Leu	Ala
Asn	Leu	Glu 260	Gln	Val	Asn	Ala	Thr 265	Tyr	Gly	Pro	Leu	Leu 270	His	Pro	Gly
Lys	Glu 275	Leu	Val	Ile	Thr	Ala	Leu 280	Pro	Leu	Tyr	His 285	Ile	Phe	Ala	Leu
Thr	Met 290	Asn	Cys	Leu	Leu	Phe 295	Ile	Glu	Leu	Gly 300	Gly	Gln	Asn	Val	Leu
Ile 305	Thr	Asn	Pro	Arg	Asp 310	Ile	Pro	Gly	Leu	Val 315	Lys	Glu	Leu	Ala	Lys 320
Tyr	Pro	Phe 325	Thr	Ala	Met	Thr	Gly 330	Val	Asn	Thr	Leu	Phe	Asn 335	Ala	Leu
Leu	Asn	Asn 340	Lys	Glu	Phe	Gln	Gln 345	Leu	Asp	Phe	Ser	Thr 350	Leu	His	Leu
Ser	Ala	Gly 355	Gly	Gly	Met	Pro	Val 360	Gln	Gln	Ala	Val 365	Ala	Glu	Arg	Trp
Val	Lys	Leu	Thr	Gly	Gln	Tyr	Leu	Leu	Glu	Gly	Tyr	Gly	Leu	Thr	Glu

370		375		380											
Cys	Ala	Pro	Leu	Val	Ser	Val	Asn	Pro	His	Asp	Ile	Asp	Tyr	His	Ser
385					390					395					400
Gly	Ser	Ile	Gly	Leu	Pro	Val	Pro	Ser	Thr	Glu	Ala	Lys	Leu	Val	Asp
				405					410					415	
Asp	Glu	Asp	Asn	Glu	Val	Pro	His	Gly	Glu	Pro	Gly	Glu	Leu	Cys	Val
			420					425					430		
Arg	Gly	Pro	Gln	Val	Met	Leu	Gly	Tyr	Trp	Gln	Arg	Pro	Asp	Ala	Thr
		435					440					445			
Asp	Glu	Ile	Ile	Lys	Asp	Gly	Trp	Leu	His	Thr	Gly	Asp	Ile	Ala	Val
	450					455					460				
Met	Asp	Asp	Glu	Gly	Phe	Leu	Arg	Ile	Val	Asp	Arg	Lys	Lys	Asp	Met
465					470					475					480
Ile	Leu	Val	Ser	Gly	Phe	Asn	Val	Tyr	Pro	Asn	Glu	Ile	Glu	Asp	Val
			485					490					495		
Val	Met	Gln	His	Ser	Gly	Val	Leu	Glu	Val	Ala	Ala	Val	Gly	Val	Pro
			500				505						510		
Ser	Gly	Ser	Ser	Gly	Glu	Ala	Val	Lys	Ile	Phe	Val	Val	Lys	Lys	Asp
	515					520					525				
Pro	Ser	Leu	Thr	Glu	Asp	Ala	Leu	Ile	Thr	Phe	Cys	Arg	Arg	Gln	Leu
	530					535					540				
Thr	Gly	Tyr	Lys	Val	Pro	Lys	Leu	Val	Glu	Phe	Arg	Asp	Glu	Leu	Pro
545					550					555					560
Lys	Ser	Asn	Val	Gly	Lys	Ile	Leu	Arg	Arg	Glu	Leu	Arg	Asp	Glu	Ala
			565					570						575	
Arg	Ala	Lys	Val	Asp	Asn	Lys	Ala								
			580				585								

<210> 7229

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7229

Val	Met	Ala	Leu	Leu	Asp	Phe	Phe	Leu	Ser	Arg	Lys	Lys	Ser	Thr	Ala
1				5				10					15		
Asn	Ile	Ala	Lys	Glu	Arg	Leu	Gln	Ile	Ile	Val	Ala	Glu	Arg	Arg	Arg
		20					25					30			
Ser	Asp	Ala	Glu	Pro	His	Tyr	Leu	Pro	Gln	Leu	Arg	Lys	Asp	Ile	Leu
		35				40						45			
Glu	Val	Ile	Cys	Lys	Tyr	Val	Gln	Ile	Asp	Pro	Glu	Met	Val	Thr	Val
	50					55				60					
Gln	Leu	Glu	Gln	Lys	Asp	Gly	Asp	Ile	Ser	Ile	Leu	Glu	Leu	Asn	Val
65				70				75						80	
Thr	Leu	Pro	Glu	Ala	Glu	Glu	Ser	Arg							
				85				90							

<210> 7230

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7230

Gln	Val	Thr	Ile	Ala	Ile	Val	Ile	Gly	Thr	His	Gly	Trp	Ala	Ala	Glu
1				5				10					15		
Gln	Leu	Leu	Lys	Thr	Ala	Glu	Met	Leu	Leu	Gly	Glu	Gln	Glu	Asn	Val
		20					25					30			
Gly	Trp	Ile	Asp	Phe	Val	Pro	Gly	Glu	Asn	Ala	Glu	Thr	Leu	Ile	Glu
		35				40						45			
Lys	Tyr	Thr	Ala	Gln	Leu	Glu	Lys	Leu	Asp	Thr	Ser	Lys	Gly	Val	Leu
	50					55				60					

Phe Leu Val Asp Thr Trp Gly Gly Ser Pro Phe Asn Ala Ala Ser Arg
 65 70 75 80
 Ile Val Val Asp Lys Glu His Tyr Glu Val Val Ala Gly Val Asn Ile
 85 90 95
 Pro Met Leu Val Glu Thr Phe Met Ala Arg Asp Asp Asn Pro Gly Phe
 100 105 110
 Asp Glu Leu Val Ala Leu Ala Val Glu Thr Gly Arg Glu Gly Val Lys
 115 120 125
 Ala Leu Lys Ala Gln Pro Val Glu Lys Pro Ala Pro Ala Pro Ala Ala
 130 135 140
 Pro Lys Ala Val Ala Pro Ala Lys Pro Met Gly Pro Asn Asp Tyr Met
 145 150 155 160
 Val Ile Gly Leu Ala Arg Ile Asp Asp Arg Leu Ile His Gly Gln Val
 165 170 175
 Ala Thr Arg Trp Thr Lys Glu Thr Asn Val Gln Arg Ile Ile Val Val
 180 185 190
 Ser Asp Glu Val Ala Ala Asp Thr Val Arg Lys Thr Leu Leu Thr Gln
 195 200 205
 Val Ala Pro Pro Gly Val Thr Ala His Val Val Asp Val Ala Lys Met
 210 215 220
 Ile Arg Val Tyr Asn Asn Pro Lys Tyr Ala Gly Glu Arg Val Met Leu
 225 230 235 240
 Leu Phe Thr Asn Pro Thr Asp Val Glu Arg Ile Val Glu Gly Gly Val
 245 250 255
 Lys Ile Thr Ser Val Asn Ile Gly Gly Met Ala Phe Arg Gln Gly Lys
 260 265 270
 Thr Gln Val Asn Asn Ala Ile Ser Val Asp Ala Lys Asp Ile Glu Ala
 275 280 285
 Phe Asn Lys Leu Asn Ala Arg Gly Ile Glu Leu Glu Ala Arg Lys Val
 290 295 300
 Ser Thr Asp Gln Lys Leu Lys Met Met Asp Leu Ile Gly Lys Val Gly
 305 310 315 320
 Lys

<210> 7231

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 7231

Ser Glu Ser Tyr Pro Glu Thr Thr Gly Glu Leu Thr Val Lys Lys Asp
 1 5 10 15
 Asn Leu Thr Leu Asp Asp Phe Leu Ser Arg Phe Gln Leu Leu Arg Pro
 20 25 30
 Gln Val Ser Arg Ala Thr Leu Asn Gln Arg Gln Ala Ala Val Leu Ile
 35 40 45
 Pro Val Val Arg Arg Glu Gln Pro Gly Leu Leu Leu Thr Gln Arg Ser
 50 55 60
 Pro His Met Arg Lys His Ala Gly Gln Val Ala Phe Pro Gly Gly Ala
 65 70 75 80
 Val Asp Ser Thr Asp Ala Ser Leu Ile Ala Ala Ala Leu Arg Glu Ala
 85 90 95
 His Glu Glu Val Ala Ile Pro Pro Glu Thr Val Glu Val Ile Gly Val
 100 105 110
 Leu Pro Pro Val Asp Ser Val Thr Gly Phe Gln Val Thr Pro Val Val
 115 120 125
 Gly Ile Ile Pro Pro Asp Leu Gln Tyr His Ala Ser Val Asp Glu Val
 130 135 140
 Ser Ala Val Phe Glu Met Pro Leu Glu Glu Ala Leu Arg Leu Gly Arg
 145 150 155 160

Tyr His Pro Leu Asp Ile His Arg Arg Gly His Asp His Arg Val Trp
 165 170 175
 Leu Ser Trp Tyr Gln His Tyr Phe Val Trp Gly Met Thr Ala Gly Ile
 180 185 190
 Ile Arg Glu Leu Ala Leu Gln Ile Gly Leu Lys Pro
 195 200 205

<210> 7232

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7232

Pro Ser Gly Glu Lys Ser Ser Ala Thr Val Phe Ser His Cys Ile Phe
 1 5 10 15
 Ala Gln Gly Leu Cys Gln Pro Leu Leu Ser Gly Ala Thr Pro Asn Ser
 20 25 30
 Asp Asp Gly Gly Thr Leu Trp Gln Ser Cys Arg Leu Thr Thr Lys Asp
 35 40 45
 Asn Glu Asp Thr Phe Met Thr Ile Thr Arg Ile Asp Ala Glu Ala Arg
 50 55 60
 Trp Ser Asp Val Val Ile His Asn Gln Thr Leu Tyr Tyr Thr Gly Val
 65 70 75 80
 Pro Ala Asn Leu Asp Ala Asp Ala Phe Glu Gln Thr Ala Asn Thr Leu
 85 90 95
 Ala Gln Ile Asp Ala Val Leu Glu Lys Gln Gly Ser Asp Lys Ser Arg
 100 105 110
 Ile Leu Asp Ala Thr Ile Phe Leu Ala Asn Lys Asp Asp Phe Ala Ala
 115 120 125
 Met Asn Lys Ala Trp Asp Ala Trp Val Val Ala Gly His Ala Pro Val
 130 135 140
 Arg Cys Thr Val Gln Ala Thr Leu Met Lys Pro Glu Tyr Lys Val Glu
 145 150 155 160
 Ile Lys Ile Ile Ala Ala Val
 165

<210> 7233

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 7233

Ile Ile Arg Ala Asn Tyr Phe Thr Leu Pro Gly Ser Met Pro Tyr Met
 1 5 10 15
 Asn Met Arg Phe Pro Thr Val Met Thr Leu Pro Trp Arg Ala Asp-Ala
 20 25 30
 Ala Glu Phe Trp Phe Ala Arg Leu Ser His Leu Pro Phe Ala Met Leu
 35 40 45
 Leu His Ser Gly His Ala Asp His Pro Tyr Ser Arg Phe Asp Ile Leu
 50 55 60
 Val Ala Asp Pro Val Lys Thr Leu Thr Thr Asp Ala Leu Ser Pro Thr
 65 70 75 80
 Asp Asp Pro Leu Met Arg Leu Gln Asn Glu Ile Asp Ala Leu Gly Leu
 85 90 95
 Thr Ala Thr Pro Asp Pro Asp Leu Pro Phe Gln Gly Gly Ala Leu Gly
 100 105 110
 Leu Phe Gly Tyr Asp Leu Gly Arg Phe Glu Lys Leu Pro Glu His
 115 120 125
 Ala Gln Ala Asp Ile Ser Leu Pro Asp Met Ala Val Gly Leu Tyr Asp
 130 135 140
 Trp Ala Leu Ile Val Asp His Arg Lys Gln Thr Val Ser Leu Leu Ser

145		150		155		160
His Arg Asp Val Gln	Ala Arg Leu Ala Trp	Leu Glu Ala Gln Arg	Pro			
	165	Phe Met Leu Thr	Ser Gly Trp Arg Ser	Asn Met		
Ala Ala Pro Glu His	180	185	190			
Ser Ala Glu Glu Tyr	Ala Glu Lys Phe	Ser Arg Val Gln	Ala Tyr Leu			
	195	200	205			
His Ser Gly Asp Cys	Tyr Gln Val Asn	Leu Ala Gln Arg	Phe Gln Ala			
	210	215	220			
Ala Tyr Lys Gly Asp	Glu Trp Gln Ala	Phe Thr Arg	Leu Asn Ala	Ser		
225	230	235	240			
Asn Lys Ala Pro Phe	Ser Ala Phe Leu	Arg Phe Glu	His Gly Ala	Ile		
	245	250	255			
Leu Ser Leu Ser Pro	Glu Arg Phe Ile	His Leu Ala	Asp Gly Met	Ile		
	260	265	270			
Gln Thr Arg Pro Ile	Lys Gly Thr Leu	Pro Arg Leu	Ala Asn Ala	Asp		
	275	280	285			
Ala Asp Arg Gln Gln	Ala Glu Thr Leu	Ala Ala Ser	Pro Lys Asp	Arg		
	290	295	300			
Ala Glu Asn Leu Met	Ile Val Asp Leu	Met Arg Asn	Asp Ile Gly	Arg		
305	310	315	320			
Val Ala Glu Pro Gly	Ser Val Arg Val	Pro Glu Leu	Phe Val Val	Glu		
	325	330	335			
Pro Phe Pro Ala Val	His His Leu Val	Ser Thr Ile Thr	Ala Arg Leu			
	340	345	350			
Pro Ala Ser Arg Thr	Ala Cys Asp Leu	Leu Arg Ala	Ala Phe Pro	Gly		
	355	360	365			
Gly Ser Ile Thr Gly	Ala Pro Lys Val	Arg Ala Met	Glu Ile Ile	Asp		
	370	375	380			
Glu Leu Glu Pro His	Arg Arg Asn Ala	Trp Cys Gly	Ser Ile Gly	Tyr		
385	390	395	400			
Val Ser Leu Cys Gly	Thr Met Asp Thr	Ser Ile Thr	Ile Arg Thr	Leu		
	405	410	415			
Thr Ala Cys Asp Gly	Asn Leu Tyr Cys	Ser Ala Gly	Gly Gly Ile	Val		
	420	425	430			
Ala Asp Ser Gln Val	Glu Ala Glu Tyr	Gln Glu Thr	Phe Asp Lys	Val		
	435	440	445			
Asn Arg Ile Leu Lys	Gln Leu Glu Asn	Ser Arg				
	450	455	460			

<210> 7234

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7234

His Arg Tyr Trp Asn	Pro Ser Asn Pro	Val Arg Ser Val	Lys Val Ile
1	5	10	15
Ser Ile Phe Asp Met	Phe Lys Val Gly	Ile Gly Pro Ser	Ser Ser His
	20	25	30
Thr Val Gly Pro Met	Lys Ala Gly Lys	Gln Phe Val Asp	Asp Leu Val
	35	40	45
Glu Lys Gly Leu Leu	Glu Ser Val Thr	Arg Val Ala Val	Asp Val Tyr
	50	55	60
Gly Ser Leu Ser Leu	Thr Gly Lys Gly	His His Thr Asp	Ile Ala Ile
65	70	75	80
Ile Met Gly Leu Ala	Gly Asn Met Pro	Asp Thr Val Asp	Ile Asp Ala
	85	90	95
Ile Pro Ala Phe Ile	Arg Asp Val Glu	Thr Arg Gly Arg	Leu Leu Leu
	100	105	110
Ala Asn Gly Gln His	Glu Val Asp Phe	Pro Gln Asp Asp	Gly Met Arg

115 120 125
 Phe Arg Ser Asp Asn Leu Pro Leu His Glu Asn Gly Met Thr Ile His
 130 135 140
 Ala Trp Ser Gly Glu Lys Glu Ile Tyr Ser Lys Thr Tyr Tyr Ser Ile
 145 150 155 160
 Gly Gly Gly Phe Ile Val Asp Glu Glu His Phe Gly Lys Glu Ser Ala
 165 170 175
 Gly Asp Val Asn Val Pro Tyr Pro Phe Lys Ser Ala Thr Glu Met Leu
 180 185 190
 Gly Tyr Cys Lys Glu Thr Gly Leu Ser Leu Ser Gly Met Val Met Gln
 195 200 205
 Asn Glu Leu Ala Leu His Ser Lys Lys Glu Ile Glu Asp Tyr Phe Ala
 210 215 220
 Asn Val Trp Gln Thr Met Arg Ala Cys Ile Asp Arg Gly Met Asn Thr
 225 230 235 240
 Glu Gly Val Leu Pro Gly Pro Leu Arg Val Pro Arg Arg Ala Ser Ala
 245 250 255
 Leu Arg Arg Met Leu Val Thr Thr Asp Lys Phe Ser Asn Asp Pro Met
 260 265 270
 Asn Val Val Asp Trp Val Asn Met Phe Ala Leu Ala Val Asn Glu Glu
 275 280 285
 Asn Ala Ala Gly Gly Arg Val Val Thr Ala Pro Thr Asn Gly Ala Cys
 290 295 300
 Gly Ile Val Pro Ala Val Leu Ala Tyr Tyr Asp His Phe Ile Glu Pro
 305 310 315 320
 Val Thr Pro Asp Ile Tyr Ile Arg Tyr Phe Leu Ala Ala Gly Ala Ile
 325 330 335
 Gly Ala Leu Tyr Lys Met Asn Ala Ser Ile Ser Gly Ala Glu Val Gly
 340 345 350
 Cys Gln Gly Glu Val Gly Val Ala Cys Ser Met Ala Ala Gly Leu
 355 360 365
 Ala Glu Leu Leu Gly Ala Ser Pro Glu Gln Val Cys Val Ala Ala Glu
 370 375 380
 Ile Gly Met Glu His Asn Leu Gly Leu Thr Cys Asp Pro Val Ala Gly
 385 390 395 400
 Gln Val Gln Val Pro Cys Ile Glu Arg Asn Ala Ile Ala Ser Val Lys
 405 410 415
 Ala Ile Asn Ala Ser Arg Met Ala Met Arg Arg Thr Ser Glu Pro Arg
 420 425 430
 Val Ser Leu Asp Lys Val Ile Glu Thr Met Tyr Glu Thr Gly Lys Asp
 435 440 445
 Met Asn Ala Lys Tyr Arg Glu Thr Ser Arg Gly Gly Leu Ala Ile Lys
 450 455 460
 Val Gln Cys Asp
 465

<210> 7235

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 7235

Ala Phe Leu Ser Pro Ile Cys Asn Arg Trp Ala Asn Phe Pro Leu Ser
 1 5 10 15
 Ser Arg Arg Phe Thr Tyr Ser Pro Leu His Cys His Cys Cys Val Trp
 20 25 30
 Leu Phe Trp Pro Val Leu Asn Arg Arg Pro Phe Met Gln Thr Ala Gln
 35 40 45
 Thr Ile Ile Lys Asp Tyr Arg Arg Lys Arg Val Ile Val Cys Val Thr
 50 55 60
 Val Ala Leu Val Thr Leu Val Leu Thr Leu Gly Ile Arg Phe Ile Ser

Pro Ala Arg His Asn Gly His Ile Val Pro Leu Leu Pro Leu Arg
 565 570 575

<210> 7236

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 7236

Leu	Arg	Ser	Asn	Ile	Leu	Ser	Ser	Ser	Ala	Arg	Asn	Leu	Phe	Lys	Ile
1			5						10					15	
Leu	Ser	Ser	Phe	Leu	Ile	Gln	Lys	Asn	Pro	His	His	Glu	Glu	Val	Cys
			20					25					30		
Val	His	Glu	Glu	Thr	Thr	Ala	Gly	Leu	Trp	Ala	Pro	Leu	Pro	Asp	Ser
		35					40					45			
His	Val	Val	Leu	Phe	Leu	Asp	Phe	Asp	Gly	Val	Cys	His	Arg	Cys	Lys
	50					55					60				
Asn	Glu	Thr	Phe	Glu	Arg	Met	Pro	Leu	Leu	Glu	Lys	Leu	Leu	Asp	Asn
65					70					75					80
Cys	Pro	Ala	Met	Val	Ile	Val	Ile	Ser	Ser	Trp	Arg	Glu	Cys	Ala	
			85						90				95		
Asn	Thr	Ser	Tyr	Leu	Lys	Ser	Leu	Phe	Arg	Val	Pro	Tyr	Arg	Asp	Lys
			100					105					110		
Ile	Ile	Gly	Ala	Thr	Gly	Ser	Val	Tyr	Leu	Lys	His	Gly	Gln	Thr	Gly
		115					120					125			
Val	Arg	Ala	Ala	Glu	Cys	Glu	Asp	Phe	Val	Phe	Ser	His	Arg	Val	Lys
		130				135					140				
Ala	Phe	Ile	Cys	Leu	Asp	Asp	Asp	Glu	Ser	Leu	Phe	Pro	Ala	Gly	Tyr
145					150					155					160
Pro	His	Leu	His	Lys	Thr	Asp	Tyr	Tyr	Thr	Gly	Leu	Thr	Glu	Ser	Asp
				165					170					175	
Leu	Ala	Ala	Leu	Asn	Ala	Arg	Tyr	His	Gln	Leu	Met	Gly	Arg		
			180					185					190		

<210> 7237

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 7237

Ile	Arg	Gln	Glu	Arg	Asp	Ile	Met	Leu	His	His	Cys	Gln	Ala	Lys	Ser
1				5					10					15	
Leu	Asp	Asp	Ile	Tyr	Leu	Glu	Asp	Ile	Pro	His	Ile	Ile	His	Pro	Ala
			20					25					30		
Thr	Ala	Val	His	Asp	Leu	Glu	Asp	Thr	Ala	Leu	Pro	Asn	Arg	Ile	Ile
		35					40					45			
Gln	Glu	Trp	Asn	Leu	Pro	Gln	Gly	Tyr	Thr	Gln	Phe	Val	Ser	Arg	Tyr
	50					55					60				
His	Gln	Phe	His	His	Gln	Arg	Pro	Trp	Leu	Ala	Tyr	Arg	Asp	Thr	Leu
65					70					75					80
Asp	Asp	Ile	Arg	Tyr	Gly	Lys	Ile	Val	Leu	Leu	Arg	Lys	Asp	Ile	Thr
				85					90				95		
Gly	Asn	Ala	Gly	Pro	Gly	Val	Ile	Ser	Asn	Gly	Asn	Leu	Arg	Asn	Asp
			100					105					110		
Leu	Pro	Leu	Ser	Leu	Phe	Thr	Arg	Leu	Arg	Asp	Ile	Ile	Ser	Arg	Gln
		115					120					125			
Leu	Lys	Arg	Pro	Gly	Tyr	Tyr	Val	Arg	Ser	Thr	Thr	Pro	Ala	Gln	His
	130					135					140				
Ala	Gln	Ser	Thr	Lys	Thr	Ile	Asn	Ser	Lys	Ala	Ala	Gly	Arg	Leu	Leu
145					150					155					160
Ala	Ala	Gly	Gly	Leu	Tyr	Asn	Gly	Asn	Val	Glu	Gly	Phe	Arg	His	Thr

				165					170					175			
Ala	Glu	Gln	Leu	Gly	Gly	Glu	Ala	Val	Glu	Gly	Tyr	Asp	Gln	Val	Leu		
			180					185					190				
Asn	Glu	Thr	Thr	Ser	Gly	Met	Leu	Val	Ala	Ala	Ala	Ser	Leu	Leu	Val		
		195					200					205					
Ile	Arg	Asn	Pro	Arg	Ser	Ala	Asp	Glu	Leu	Thr	Ser	Tyr	Leu	Gly	Lys		
	210					215					220						
Tyr	Lys	Lys	Ala	His	Val	Leu	Leu	Asp	Asp	Met	Asn	Val	Ser	Glu	Leu		
225					230					235					240		
Asn	Tyr	Met	Arg	Arg	Asp	Arg	Ala	Glu	Tyr	Leu	Pro	Leu	Arg	Gly	Thr		
			245					250						255			
Ile	Gln	Gln	Tyr	Cys	Thr	Pro											
			260														

<210> 7238

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7238

Ser	Phe	Leu	Phe	Asn	Ser	Gln	Tyr	Cys	Leu	Tyr	Ile	Gln	Tyr	Lys	Asn		
1				5				10						15			
Ser	Ser	Val	Ala	Met	Ser	Val	Ile	Leu	Glu	His	Ile	Ser	Asn	Lys	Pro		
		20						25					30				
Tyr	Glu	Met	Ala	Pro	Phe	Phe	Ser	Asp	Leu	Leu	Ser	Cys	Gly	Val	Met		
		35					40					45					
Ser	Pro	Cys	Ala	Gly	His	Glu	Asp	Asn	Glu	Leu	Asn	Leu	His	Glu	Tyr		
	50					55					60						
Val	Val	Arg	Asn	Arg	Pro	Ser	Thr	Phe	Phe	Val	Arg	Ala	Ala	Gly	Leu		
65				70					75						80		
Ser	Met	Ile	Asn	Ala	Gly	Ile	Asn	Asp	Gly	Ala	Ile	Leu	Val	Val	Asp		
			85					90					95				
Arg	Ser	Leu	Thr	Ala	Arg	His	Gly	Ser	Ile	Val	Val	Ala	Leu	Val	Asp		
		100						105					110				
Gly	Glu	Phe	Thr	Val	Lys	Ile	Leu	His	Thr	Tyr	Pro	Glu	Leu	Leu	Leu		
		115					120					125					
Met	Pro	Ser	Asn	Pro	Ala	Tyr	Lys	Pro	Ile	Arg	Val	Asn	Pro	Glu	Ser		
	130					135					140						
Leu	Glu	Ile	Trp	Gly	Val	Val	Thr	Phe	Ala	Leu	Asn	Gln	Phe	Ser	His		
145				150					155						160		
Val	His	Ala	Arg														

<210> 7239

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7239

Cys	Pro	Met	Thr	Leu	Ser	Cys	Ser	Ser	Thr	Asp	Phe	Glu	Asn	Asp	Ser		
1				5					10					15			
Asp	Phe	Arg	Pro	Ser	Arg	Ala	Arg	Cys	Cys	Leu	Arg	Phe	Arg	Leu	Cys		
		20						25					30				
Arg	Ser	Ile	Arg	Cys	Val	Tyr	Arg	Leu	Leu	Ile	Thr	Cys	Ser	Phe	Pro		
		35					40					45					
Phe	Arg	Arg	Asp	Ser	Tyr	Ser	Gly	Gln	Pro	Ser	Val	Ile	His	Ile	Thr		
	50					55					60						
Thr	Ser	Lys	Gly	Asp	Ser	Arg	Leu	Ile	Arg	Arg	Pro	Ser	Val	Ala	Ile		
65				70					75						80		
Val	Arg	Ser	Pro	Asn	Thr	Cys	Ala	Thr	Thr	Val	Phe	Arg	Ser	Leu	Ser		
				85					90					95			

Glu Leu Leu Val Val Lys Ala
420

<210> 7241
<211> 190
<212> PRT
<213> Enterobacter cloacae

<400> 7241
Ile Lys Arg Arg Phe Ser Gly Glu Ile Val Val Phe Thr Pro Pro Ala
1 5 10 15
Asp Asp Val Lys Pro Ile Pro Val Pro Asp Glu Ile Tyr Thr Gln Cys
20 25 30
Ile Thr Asp Ala Ala Arg Tyr Phe Gly Ile Asp Ala Glu Leu Val Phe
35 40 45
Thr Leu Phe Asp Asn Glu Gly Gly Lys Val Gly Thr Phe Ser Arg Asn
50 55 60
Thr Asn Gly Thr Tyr Asp Ile Gly Pro Met Gln Ile Asn Ser Ser Asn
65 70 75 80
Leu Pro Glu Ile Lys Lys His Phe Pro Thr Val Thr Trp Arg Val Leu
85 90 95
Ala Tyr Asp Ala Cys Ala Ser Phe Trp Val Gly Thr Trp Trp Leu Tyr
100 105 110
Arg Lys Ile Val Asp Arg Lys Gly Asn Val Phe Glu Gly Ile Ala Asp
115 120 125
Tyr Asn Ser Lys Thr Pro Lys Val Arg Ala Lys Tyr Ile Phe Asn Phe
130 135 140
Met Val Lys Tyr Asn Arg Arg Ile Gln Gln Arg Asn Gly Met Gly Glu
145 150 155 160
Leu Tyr Gln Trp Thr Gln Gln Pro Pro Arg Tyr Asn Gly His Ile Ala
165 170 175
Lys Asn Val Pro Glu Gln Asn Pro Thr Pro Val Val Lys
180 185 190

<210> 7242
<211> 76
<212> PRT
<213> Enterobacter cloacae

<400> 7242
Asn Phe Ala Thr Gly Lys Val Pro Ser Gly Trp Gln Val His His Lys
1 5 10 15
Ile Pro Leu Asp Asp Gly Gly Thr Asn Ala Ile Asp Asn Leu Val Leu
20 25 30
Ile Gln Asn Ser Pro Tyr His Ser Ala Leu Ser Lys Ala Gln Ser Ile
35 40 45
Ile Thr Lys Asp Leu Pro Tyr Asn Ser Ser Thr Lys Val Leu Trp Pro
50 55 60
Ser Pro Asn Gly Val Ile Tyr Pro Val Gly Lys
65 70 75

<210> 7243
<211> 172
<212> PRT
<213> Enterobacter cloacae

<400> 7243
Glu Ala Leu Met Lys Asp Leu Thr Gln Leu Leu Ser Ser Leu Lys Arg
1 5 10 15
Leu Met Val Ala Asp His Tyr Pro Leu Ala Ser Pro Val Ala Pro Glu
20 25 30

Val	Leu	Lys	Asp	Leu	Ile	Cys	Asn	Pro	Pro	Pro	Val	Glu	Trp	Ala	Asp
		35					40					45			
His	Lys	Lys	Ser	Ala	Tyr	Ile	Asp	Ile	Gln	Lys	Leu	Ile	Lys	Thr	Arg
	50					55					60				
Leu	Asp	Tyr	Ala	Gln	Val	Phe	Asn	Ala	Met	Asp	Gly	Phe	Glu	Tyr	Asn
65					70					75					80
Gly	Leu	Thr	Phe	Tyr	Asn	Leu	Val	Gln	Ala	Glu	Asn	Glu	Asn	Leu	Leu
				85				90						95	
Trp	Ser	Asn	Ile	Tyr	Ile	Arg	Asn	Phe	Glu	Ala	Arg	Asp	Asn	Glu	Ile
		100					105						110		
Tyr	Val	Asp	Pro	Asn	Leu	Thr	Asp	Lys	Val	Leu	Ile	Gly	Glu	Asp	Gly
		115					120					125			
Met	Ser	Leu	Phe	Ala	Tyr	Ser	Phe	Ala	Asp	Asp	Cys	Phe	Gln	Ile	Arg
	130					135					140				
Asp	Lys	Ala	Ser	Thr	Asp	Tyr	Val	Ile	Glu	Ser	His	Thr	Glu	Phe	Asp
145					150					155					160
Arg	Phe	Leu	Ser	Ser	Leu	Ile	Gln	Thr	Val	Ser					
				165					170						

<210> 7244

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7244

Trp	Thr	Lys	Asn	Ser	Lys	Ala	Met	Thr	Cys	Leu	Arg	Pro	Ile	Arg	Ser
1				5					10					15	
Ile	Ile	Ser	Met	Leu	Ala	Ala	Val	Leu	Glu	Ala	Leu	Met	Arg	Ser	Asn
		20						25					30		
Ala	Val	Phe	Asn	Phe	Lys	Lys	Leu	Leu	Ser	Leu	Ser	Val	Cys	Ala	
		35					40				45				
Ala	Ile	Leu	Ala	Pro	Thr	Ala	Asn	Ala	Asp	Asn	Ala	Met	Arg	Asn	Ile
		50				55					60				
Phe	Asn	Gly	Met	Met	Thr	Ser	Thr	Ser	Pro	Ala	Thr	Phe	Ser	Thr	Ala
65					70					75					80
Thr	Arg	Thr	Gly	Ile	Val	Gly	Gly	Ser	Met	Ser	Tyr	Arg	Thr	Thr	Asn
			85					90						95	
Val	Asn	Thr	Asn	Leu	Val	Ser	Met	Ser	Phe	Pro	Lys	Ala	Ser	Val	Gly
		100					105						110		
Cys	Asn	Gly	Ile	Asp	Val	Phe	Leu	Gly	Ser	Phe	Ser	Met	Ile	Asn	Gly
		115				120						125			
Asp	Gln	Leu	Val	Gln	Val	Ala	Arg	Gly	Ile	Ala	Gln	Gly	Ala	Ala	Ile
	130					135					140				
Tyr	Ala	Phe	Asn	Val	Ala	Val	Ser	Ala	Ile	Cys	Ala	Asp	Cys	Ala	Ala
145				150						155					160
Thr	Ile	Asn	Asp	Ile	Gln	Asn	Lys	Leu	Gln	Ala	Leu	Asn	Lys	Phe	Ala
			165					170						175	
Lys	Asp	Ser	Cys	Asn	Ala	Thr	Tyr	Ser	Phe	Leu	Ser	Glu	Asn	Val	Gly
		180						185					190		
Thr	Pro	Ser	Gln	Phe	Ala	Asn	Ser	Val	Ser	Ser	Gly	Pro	Ala	Ser	Ile
		195					200					205			
Leu	Gly	Ser	Ile	Asn	Gly	Leu	Ile	Pro	Asp	Phe	Gly	Ser	Ser	Met	Thr
	210					215					220				
Lys	Ser	Pro	Glu	Ala	Val	Thr	Ser	Gln	Val	Lys	Ala	Lys	Asp	Pro	Glu
225					230					235					240
Glu	Phe	Ala	Glu	Lys	Phe	Ser	Gly	Asn	Leu	Phe	Tyr	Met	Ser	Phe	Met
				245					250					255	
Asp	Ile	Asp	Lys	Gly	Thr	Met	Asn	Ile	Gly	Gly	Val	Thr	Glu	Leu	Ser
			260				265						270		
Gly	Tyr	Lys	Leu	Ala	Glu	Gln	Leu	Met	Ser	Leu	Val	Gly	Thr	Val	Ile
		275					280					285			

Ile Asn Trp Asp Ser Lys Gly Glu Lys Ala Gly Met Glu Val Arg Pro
 290 295 300
 Ser Thr Met Thr Val Thr Asp Tyr Ile Met Gly Pro Pro Ala Gly Gly
 305 310 315 320
 Ser Ile Lys Met Leu Lys Cys Ser Pro Ala Pro Asp Pro Ser Ser Pro
 325 330 335
 Arg Lys Ala Gln Cys Leu Val Met Ser Glu Val Asn Asp Gly Gly Phe
 340 345 350
 Lys Gly Leu Lys Asp Thr Ile Ser Asp Leu Leu Leu Asn Val Gln Lys
 355 360 365
 Lys Ile Ile Asn Asp Val Arg Val Ser Asp Asp Glu Leu Arg Ile Ile
 370 375 380
 Ser Tyr Ile Gly Ile Pro Thr Ile Ile Asp Ser Leu Gln Thr Phe Glu
 385 390 395 400
 Ala Pro Glu Gly Tyr Ala Tyr Ile Gln Asp Ile Ser Thr Ile Ala Ala
 405 410 415
 Thr Ser Leu Val Ile Asn Met Leu Arg Gln Val Glu Ala Lys Ile Ser
 420 425 430
 Thr Met Ser Ile Pro Ser Glu Ser Leu Ser Gly Lys Arg Asp Asp Leu
 435 440 445
 Asn Arg Leu Thr Asp Asn Leu Ser Lys Gln Val Lys Ala Ala Tyr Glu
 450 455 460
 Leu Ser His Ser Gln Val Gly Thr Ser Ser Asp Val Ile Ser Thr Trp
 465 470 475 480
 Asp Asn Arg Arg Leu Gln Arg Lys Ala Phe Thr Glu Ser Ile Arg Gly
 485 490 495
 Thr Arg Asn
 500

<210> 7245

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7245

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
 1 5 10 15
 Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
 20 25 30
 Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
 35 40 45
 Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
 50 55 60
 Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
 65 70 75 80
 Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
 85 90 95

<210> 7246

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 7246

Thr Val Ser Ala Ile Trp Tyr Asp Ser Pro Asn Ile Arg Ile Trp Lys
 1 5 10 15
 Glu Arg Tyr Met Gly Asp Leu Val Ser Lys Asn Asn Ile Asp Arg Leu
 20 25 30
 Glu Arg Phe His Ser Leu Leu Ala Gly Gln Tyr Trp Thr Ser Thr Asp
 35 40 45
 Ser Ile Pro Glu Glu Gly Ile Val Ala Gly Asp Thr Leu Leu Ile Thr

50	55	60
Ser Leu Arg Tyr Val	Glu Asp Lys Leu His Thr	Val Ile Leu Arg Ala
65	70	75
His Pro Arg Val Tyr	Gly Gln Thr Val Ala Ile	Val Thr Glu Asp Ser
85	90	95
Ser Gly Asn Arg Arg	Glu Arg Gly Lys Glu Met Arg	Glu His Arg Phe
100	105	110
Leu Val Lys Asp Phe	Leu Ser Ser Phe Val Phe	Glu Pro Asp His Lys
115	120	125
Val Ile Arg Asp Ala	Glu Leu Arg Gln Ala Gln	Glu Val Asn Ser
130	135	140
Leu Gln Ala Ser Leu	Thr Ala Leu Val Ser Asp	Ala Gln Gly Leu Arg
145	150	155
Asp Leu Ala Ile Glu	Gln Leu Gly Thr Asp	Asp Arg Glu Asn Pro Val
165	170	175
Thr Gly Leu Ser Val	Ala Leu Val Pro Pro	Gln Glu Gln Ala Val
180	185	190
Thr Ser Leu Ala Ile	Gly Ser Val Gln Asn Ala	Leu Ser Ser Gly Ile
195	200	205
Ser Asp Thr Arg Ile	Glu Gln Ile Arg Glu Ala	Ala Leu Lys Glu Gly
210	215	220
Gln Ile Ser Thr Ala	Ile Ser Lys Ile Ile Thr	Gln Arg Thr Gln Ala
225	230	235
Ile Ala Asn Ala Ser	Lys Arg Met Leu Pro Tyr	Phe Glu Glu Val Ala
245	250	255
Ala Ala Ser Leu Ala	Thr Thr Glu Glu Ala Met	Glu Tyr Val Lys Lys
260	265	270
Ile His Asp Gly Val	Gly Ser Leu Glu Leu Tyr	Thr Gly Lys Asp Val
275	280	285
Glu Val Val Asn Ile	Val Lys Gly Glu Ser Ala	Pro Ser His Leu Pro
290	295	300
Leu Gln Val Val Gln	Ala Lys Leu Met Val Asp	Glu Glu Leu Ala Val
305	310	315
Trp Cys Asp Leu Asp	Ser Trp Phe Asp Phe Ser	Asp Met Glu Lys Phe
325	330	335
His Glu Thr Leu Arg	Thr Ser Pro Gly Leu Val	Glu Gln Ile Phe Pro
340	345	350
Ser Glu Arg Ser Ile	Val Cys Met Ala Thr Thr	Arg Arg Tyr Ile Asp
355	360	365
Tyr Arg Asp Pro Trp	Glu Asn His Val Arg Asn	Asp Arg Asn Arg Val
370	375	380
Val Phe Leu Leu Val	Arg Asp Gly Gln Asn Ile	His Gln Val Tyr Cys
385	390	395
Ser Val Glu Ser His	Leu Gly Ala Ser Gln Leu	Phe Pro Ser Ala Ser
405	410	415
Glu Gln Glu Ala His	Phe Gln Gly Ile Asp	Gly Ser Thr Ile Lys Phe
420	425	430
Glu Asp Val Ser Tyr	Thr Asp Arg Leu Lys Gln	His Asp Leu Met Ala
435	440	445
Leu His Tyr Arg Arg	Phe Leu Ile Leu Ile Cys	Gly Leu Asp His Arg
450	455	460
Leu Lys Leu Phe Gly	Asp Phe Tyr Asp Thr Asn	Thr Pro Tyr Ser Phe
465	470	475
Leu Ser Leu Glu Phe	Gln Glu Arg Tyr Phe Gln	Phe Leu His Asp Lys
485	490	495
Asp Gly Ser Gly Leu	Leu Gly Met Ala Glu Thr	Arg Pro Ser Leu Gln
500	505	510
Ser Tyr Leu Glu Gln	Ala Asn Ser Cys Leu Gln	Ser Gly Ser Arg Val
515	520	525
Met Cys Asn Trp Asp	Ser Leu Met Asn Pro Val	Thr Ala Pro Gly Ala
530	535	540

Val Gln Glu Asp Asn Ser Tyr Ser Gly Tyr Lys Trp Leu Gly Arg Thr
 545 550 555 560
 His Lys Asn Tyr Glu Pro Val Ile Ala Phe Arg Gln Gly Asp Asp Ile
 565 570 575
 Cys Val Asn Ala Thr Val Asn Arg Tyr Ser Thr Asp Arg Asp Phe Asn
 580 585 590
 Cys Lys Val Asn Leu Ser Leu Phe Lys Glu Ser Ser Arg Asn Asp Ala
 595 600 605
 Glu Leu Gly Phe Leu Cys Met Asp Thr Ile Lys Ala Glu Glu Leu Glu
 610 615 620
 Trp Tyr Ile His Arg Arg Lys Phe Arg Ser Asn His Leu Phe Tyr Ile
 625 630 635 640
 Arg Phe Phe Lys Met Val Leu Pro Thr Val Gln Asn
 645 650

<210> 7247

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 7247

Ser Ala Pro Leu Asn Thr Gly Glu Leu Met Ile Thr Phe Glu Ile Arg
 1 5 10 15
 Met Glu Ile Lys Val Leu His Lys Arg Gly Met Ser Ile Arg Ala Ile
 20 25 30
 Ala Arg Glu Leu Gly Ile Ser Arg Asn Thr Val Arg Ser His Leu Lys
 35 40 45
 Ala Lys Ser Glu Lys Pro Gln Tyr Ser Pro Arg Pro Ala Pro Ser Ser
 50 55 60
 Leu Leu Asp Glu Tyr Arg Asp Tyr Ile Ser Lys Arg Ile Ser Asp Ala
 65 70 75 80
 His Pro Tyr Lys Ile Pro Ala Thr Val Ile Ala Arg Glu Ile Met Glu
 85 90 95
 Leu Gly Tyr Arg Gly Arg Ala Phe
 100 105

<210> 7248

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7248

Gly Ala Glu Met Lys Lys Ile Ile Lys Ala Ser Val Leu Leu Leu Ser
 1 5 10 15
 Leu Ser Thr Ala Phe Thr Met Asn Ala Glu Pro Val Asn Thr Met Val
 20 25 30
 Leu Pro Asp Ala Ala Arg Asp Lys Leu Lys Ala Ile Gly Leu Ser Ile
 35 40 45
 Glu His Val Glu Pro Ser Pro Val Lys Asp Ile Phe Thr Val Ile Ser
 50 55 60
 Arg Glu Gly Val Ser Tyr Val Ser Lys Asp Gly Asp Tyr Ile Phe Thr
 65 70 75 80
 Gly Ser Leu Phe His Val Lys Gly Lys Asp Val Val Asn Thr Thr Glu
 85 90 95
 Gln Ala Ile Leu Met Gly Val Arg Glu Phe Ala Ser Lys Thr Lys Ser
 100 105 110
 Ile Asp Tyr Lys Ser Pro Asn Glu Lys Tyr Arg Leu Ala Ile Phe Thr
 115 120 125
 Asp Ile Thr Cys Gly Tyr Cys Gln Lys Leu His His Asp Leu Lys Ser
 130 135 140
 Tyr Leu Asp Ala Gly Ile Ser Ile Lys Phe Leu Ala Phe Pro Arg Ala

145		150		155		160									
Gly	Leu	Asn	Ser	Val	Val	Ala	Gly	Asn	Met	Ala	Lys	Ile	Trp	Cys	Ser
				165					170					175	
Ala	Lys	Pro	Asn	Glu	Ala	Leu	Asp	Ala	Ala	Met	Asn	Pro	Val	Ser	Thr
			180					185					190		
Ile	Pro	Glu	Gly	Arg	Pro	Asp	Glu	Ala	Cys	Leu	Asn	Ile	Ile	Lys	Ser
		195					200					205			
His	Phe	Gln	Val	Ala	Ser	Thr	Ile	Pro	Leu	Gln	Gly	Thr	Pro	Thr	Met
	210					215					220				
Val	Thr	Leu	Ser	Gly	Lys	Pro	Gln	Leu	Phe	Thr	Gly	Trp	Leu	Ser	Pro
225					230					235					240
Glu	Asn	Leu	Val	Thr	Gln	Met	Gly	Ala	Ala	Gln	Lys				
				245					250						

<210> 7249

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7249

Ser	Pro	Lys	Ser	Ile	Val	Ser	Arg	Ile	Ile	Pro	Ile	Tyr	Arg	Ala	Ser
1				5					10					15	
Ile	Ile	His	Arg	Arg	Leu	Ile	Thr	Asn	Arg	Leu	Lys	Ser	Ile	Lys	Val
			20					25					30		
Ala	Met	Ser	Lys	Glu	Phe	Tyr	Leu	Lys	Pro	Met	Ala	Thr	Ile	Leu	Ile
		35					40					45			
Ser	Ala	Val	Ile	Ala	Thr	Ala	Ala	Ser	Ala	Leu	Ile	Thr	Ala	Thr	Tyr
	50				55					60					
Phe	Lys	Pro	Lys	Val	Leu	Ser	Glu	Glu	Glu	Ile	Gly	Lys	Ile	Ala	Ala
65				70					75					80	
Thr	Tyr	Leu	Val	Lys	Asn	Pro	His	Tyr	Leu	Val	Glu	Ala	Gly	Lys	Ala
			85					90					95		
Leu	Glu	Asn	Gln	Asn	Val	Ser	Ala	Ser	Val	Glu	Arg	Ile	Ile	Pro	Tyr
		100						105					110		
Ala	Pro	Ala	Leu	Leu	Asp	Thr	Lys	Glu	Thr	Pro	Asn	Ile	Gly	Pro	Asp
		115					120					125			
Asp	Ala	Asp	Val	Ala	Val	Ile	Glu	Phe	Phe	Asp	Tyr	Gln	Cys	Ile	Tyr
	130					135				140					
Cys	Met	Arg	Val	Thr	Pro	Val	Val	Glu	Ser	Val	Met	Asn	Gln	Ser	Lys
145				150					155					160	
Asp	Val	Lys	Phe	Phe	Phe	Lys	Glu	Phe	Pro	Ile	Phe	Ala	Gly	Ser	Lys
			165					170					175		
Pro	Val	Ser	Ala	Met	Gly	Ala	Ala	Thr	Gly	Leu	His	Val	Tyr	Gln	Asn
			180					185					190		
Phe	Gly	Ala	Glu	Ala	Tyr	Arg	Lys	Tyr	His	Asn	Asn	Leu	Met	Ala	Val
		195					200				205				
Ala	His	Thr	Phe	Met	Thr	Ser	Gln	Arg	Lys	Phe	Glu	Leu	Thr	Asp	Phe
	210					215					220				
Asn	Thr	Val	Val	Glu	Lys	Ser	Gly	Phe	Asn	Ser	Thr	Phe	Ser	Asp	Arg
225				230					235						240
Glu	Lys	Asn	Arg	Tyr	Glu	Asn	Val	Ile	Ser	Gly	Asn	Met	Gln	Leu	Gly
			245					250						255	
Glu	Ala	Leu	Gly	Ile	Thr	Gly	Thr	Pro	Gly	Phe	Ile	Ile	Met	Asn	Met
		260					265						270		
Lys	Lys	Pro	Asn	Ala	Ala	Thr	Thr	Thr	Phe	Ile	Pro	Gly	Ala	Met	Asp
		275				280					285				
Ala	Ala	Thr	Leu	Gln	Gly	Ala	Ile	Glu	Lys	Ala	Arg	Gly	Ala		
	290					295					300				

<210> 7250

<211> 78

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<212> PRT

<213> Enterobacter cloacae

<400> 7250

Cys	Cys	Gln	Leu	Thr	Asp	Leu	Val	Tyr	Asp	Gly	Val	Phe	Glu	Val	Leu
1				5					10					15	
Gln	Trp	Leu	Leu	Phe	Leu	Ser	Ala	Val	Pro	Pro	Val	Gln	Leu	Leu	Thr
		20						25					30		
Gly	Trp	Cys	Val	Thr	Ala	Lys	Ala	Leu	Pro	Asp	Ile	Ser	Ala	Ile	Ser
		35					40					45			
Ala	Leu	Thr	Ala	Val	Lys	His	Gly	Asn	Cys	Ser	Ser	Leu	Thr	Pro	Leu
	50					55					60				
Leu	Asn	Pro	Val	Arg	Thr	Arg	Lys	Ser	Leu	Ile	Trp	Pro			
65					70					75					

<210> 7251

<211> 1321

<212> PRT

<213> Enterobacter cloacae

<400> 7251

Leu	Arg	Ser	Asp	Met	Asp	Tyr	Asn	Ile	Tyr	Thr	Leu	Gly	Asp	Ile	Asp
1				5					10					15	
Phe	Val	Trp	Ser	Ala	Phe	Thr	Gly	Ile	Ala	Leu	Ile	Phe	Ser	Gln	Tyr
		20					25						30		
Thr	Gly	Val	Lys	Glu	Phe	Leu	Thr	Thr	Ala	Ala	Val	Val	Ala	Gly	Val
		35					40					45			
Ser	Leu	Phe	Tyr	Lys	Thr	Trp	Leu	Trp	Leu	Gln	Ala	Pro	Thr	Lys	Asn
	50					55				60					
Glu	Leu	Pro	Phe	Phe	Ser	Trp	Phe	Leu	Gly	Leu	Ile	Leu	Phe	Met	Met
65					70					75					80
Ala	Met	Val	Arg	Val	Asp	Val	Thr	Ile	Glu	Ser	Val	Lys	Ser	Gly	Glu
				85					90					95	
Val	Arg	Asn	Val	Asp	Gly	Ile	Pro	Ile	Phe	Ile	Ala	Ala	Met	Ala	Thr
		100					105						110		
Val	Thr	Thr	Asn	Leu	Ser	Gln	Gly	Leu	Leu	Lys	Asp	Tyr	Lys	Thr	Ala
		115					120					125			
Phe	Asp	Pro	Leu	Ser	Pro	Val	Asp	Leu	Ser	Ala	Thr	Thr	Leu	Asp	Asp
	130					135					140				
Asp	Ile	Thr	Leu	Gly	Pro	Met	Ile	Arg	Phe	Val	Lys	Phe	Leu	Gln	Trp
145					150					155					160
Gly	Gly	Asp	Ser	Gln	Gly	Tyr	Cys	Ser	Ala	Phe	Pro	Glu	Pro	Ala	Ser
			165						170					175	
Gly	Leu	Gly	Pro	Met	Asn	Val	Cys	Ala	Thr	Val	Gln	Ser	Leu	Ala	Tyr
			180					185					190		
Asn	Cys	Leu	Lys	Ala	Thr	Gln	Asn	Ser	Ser	Ala	Asn	Ile	Ala	Gly	Lys
		195					200					205			
Glu	Thr	Ile	Phe	Asn	Asp	Ile	Phe	Ser	Ala	Asn	Leu	Ala	Asp	Ser	Met
	210					215					220				
Asp	Arg	Ile	Asn	Gln	Ala	Met	Lys	Gly	Ala	Leu	Lys	Asn	Ala	Ser	Ala
225					230					235					240
Ser	Ile	Val	Gly	Ala	Asn	Gly	Ser	Lys	Ser	Gly	Thr	Cys	Asp	Glu	Val
			245						250					255	
Trp	Ser	Thr	Val	Lys	Gln	Val	Thr	Ser	Thr	Ala	Glu	Ala	Arg	Gln	Thr
			260					265					270		
Ile	Ser	Leu	Ile	Gly	Gln	Thr	Asn	Gly	Ile	Leu	Thr	Pro	Asp	Glu	Ala
		275					280					285			
Asn	Gly	Ala	Pro	Thr	Gly	Ala	Ser	Phe	Thr	Asp	Val	Met	Ala	Ser	Ala
	290					295					300				
Asn	Gly	Met	Tyr	Gly	Lys	Ala	Ile	Gly	Ser	Tyr	Asp	Ala	Thr	Leu	Asn
305					310					315					320

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Leu	Phe	Ile	Met	Asn	Glu	Leu	Arg	Asn	Gly	Ala	Ser	Lys	Tyr	Lys	Thr
				325					330					335	
Pro	Leu	Gly	Leu	Ala	Ser	Asp	Met	Gln	Leu	Phe	Glu	Ala	Ser	Leu	Lys
			340					345						350	
Arg	Thr	Asn	Thr	Met	Ala	Ser	Gln	Gly	Gln	Leu	Trp	Leu	Gln	Leu	Ser
		355					360					365			
Gly	Ala	Ala	Ile	Ala	Phe	Leu	Glu	Met	Phe	Ala	Tyr	Met	Val	Ala	Pro
	370					375					380				
Phe	Ala	Leu	Leu	Met	Leu	Leu	Ala	Leu	Gly	Gly	Asn	Gly	Val	Ala	Ala
385				390						395					400
Ala	Ala	Lys	Tyr	Leu	Gln	Leu	Ile	Leu	Phe	Val	Asn	Met	Trp	Pro	Leu
			405						410					415	
Thr	Ala	Val	Met	Val	Asn	Ala	Tyr	Val	Lys	Lys	Val	Ala	Thr	Ala	Asp
			420					425					430		
Leu	Asp	Thr	Trp	Ser	Thr	Leu	Asn	Ser	Gln	Asn	Asn	Ala	Val	Thr	Trp
		435				440						445			
Met	Gly	Leu	Pro	Gly	Leu	Ala	Glu	Thr	Tyr	Ser	Ser	Tyr	Leu	Ser	Val
	450				455						460				
Ala	Ser	Ala	Leu	Tyr	Ala	Leu	Ile	Pro	Val	Leu	Thr	Leu	Phe	Leu	Met
465				470						475					480
Thr	Gln	Ser	Ile	His	Pro	Met	Met	Asn	Ala	Val	Lys	Gly	Val	Thr	Pro
			485						490					495	
Asp	Ala	Pro	Val	Asp	Thr	Gly	His	Val	Thr	Pro	Lys	Val	Trp	Asp	Gly
		500					505						510		
Pro	Asn	Ser	Gly	Lys	Ser	Ser	Phe	Gly	Asp	Val	Thr	Arg	Thr	Ala	Leu
		515					520					525			
Thr	Ser	Thr	Gly	Gln	Gly	Tyr	Ser	Asp	Gly	Gly	Ala	Val	Asp	Ser	Ser
	530				535						540				
Asn	Phe	Arg	Leu	Gly	Met	Trp	Asn	Ala	Gly	Ser	Ser	Ile	Ala	Asn	Ser
545				550						555					560
Gln	Gly	Gln	Gly	Ser	Ala	Val	Thr	Ser	Ser	Val	Met	Ser	Ala	Ala	Ser
			565						570					575	
Asn	Ser	Phe	Gln	Ala	Gly	Tyr	Ser	Gln	Met	Ser	Glu	Ile	Gly	Arg	Ser
		580					585						590		
Gly	Gln	Ser	Ser	Gln	Gln	Phe	Ser	Thr	Asn	Leu	Gln	Thr	Met	Lys	Gln
		595				600						605			
Ile	Ser	Asp	Lys	Ile	Gly	Ala	Ser	Val	Ala	Glu	Gly	Ile	Ala	Thr	Lys
	610				615						620				
His	Gly	Val	Ser	Ala	Ser	Gln	Met	Ala	Ser	Ile	Ala	Ser	Asn	Val	Ile
625				630						635					640
Leu	Asn	Ala	Gly	Leu	Asn	Gly	Gly	Val	Gly	Thr	Gly	Asn	Gly	Ala	Gly
			645						650					655	
Leu	Lys	Ala	Ala	Val	Ala	Gly	Gln	Leu	Ser	Ser	Gly	Ala	Ser	Lys	Thr
		660						665					670		
Asn	Thr	Gly	Ser	Asp	Ser	Leu	Ser	Asn	Asp	Leu	Ser	Lys	Ala	Ile	Thr
	675					680						685			
Asn	Gln	Leu	Ser	Gln	Asp	Ser	Ala	Leu	Thr	Asp	Gln	Phe	Ser	Lys	Ala
	690				695						700				
Ala	Ser	Gln	Val	Ser	Ser	Asp	Gln	Ile	Ser	Asn	Thr	Asn	Ala	Phe	Lys
705				710						715					720
Glu	Ala	Ser	Ser	Lys	Met	Asn	Gln	Ala	Thr	Gln	Thr	Met	Ala	Gln	Asn
			725						730					735	
Ile	Ser	Thr	Ser	Val	Ser	Thr	Asn	Ala	Ser	Ser	Asn	Ser	Gly	Met	Ser
		740					745						750		
Leu	Asp	Ser	Lys	Gln	Ser	Ile	Asn	Leu	Asp	Arg	Phe	Ser	Asp	Ser	Ile
	755					760						765			
Arg	Asn	Lys	Asn	Phe	Ser	Asp	Asp	Val	Arg	Asn	Phe	Ala	Arg	Lys	
	770				775					780					
Asn	Gly	Leu	Asp	Glu	Asn	Ala	Phe	Met	Glu	Lys	Phe	Asn	Ser	Tyr	Asn
785				790						795					800
Asp	Thr	Phe	Lys	Ala	Ser	Asn	Gln	Leu	Gly	Ser	Gln	Leu	Gln	Arg	Thr

										805								810								815			
Asp	Ala	Leu	Val	Ala	Ala	Thr	Arg	Asp	Phe	Ser	Glu	Gln	Lys	Ile	Ala														
										820				825				830											
Ile	Asp	Thr	Ala	Arg	Gly	Glu	Thr	Ala	Glu	Ser	Asn	Lys	Gln	Asp	Leu														
										835				840				845											
Arg	Glu	Thr	Ser	Ser	Leu	Leu	Lys	Ser	Leu	Val	Ser	Asp	Phe	Gly	Gly														
										850				855				860											
Asn	Ala	Gln	Gln	Leu	Leu	Pro	Ile	Thr	Asn	Gln	Leu	Asp	Arg	Ile	Ser														
										865				870				875				880							
Gly	Asp	Gly	Ser	Gly	Ile	Asn	Thr	Ile	Thr	Gln	Ala	Gln	Asp	Arg	Thr														
										885				890				895											
Pro	Asp	Ser	Val	Asn	Thr	Ser	Gly	Val	Met	Ser	Ala	Ser	Arg	Val	Gly														
										900				905				910											
Glu	Leu	Gly	Gly	Ser	Val	Asp	Ser	Gln	Ala	Lys	Leu	Gly	Leu	Ser	Ser														
										915				920				925											
Asn	Ala	Gln	Asp	Ala	Thr	Gln	His	Val	Pro	Gly	Lys	Ser	Glu	Ala	Gly														
										930				935				940											
Phe	Thr	Pro	Tyr	Asn	Leu	Asp	Asn	Ala	Gly	Lys	Gly	Asp	Ile	Gln	Gly														
										945				950				955				960							
Ile	His	Asn	Asn	Asn	Val	Gly	Arg	Thr	Tyr	Ser	Asp	Glu	Glu	Arg	Asn														
										965				970				975											
Val	Leu	Asn	Ser	Leu	Glu	Lys	Asn	Gly	Pro	Val	Leu	Asn	Asn	Gln	Gly														
										980				985				990											
Val	Glu	Lys	Val	Val	Asn	Ser	Gly	Gln	Asp	Val	Arg	Asn	Ala	Glu	Gly														
										995				1000				1005											
Thr	Phe	Asn	Asp	Leu	Glu	Lys	Val	Gly	Gly	Arg	Val	Val	Gly	Asp	Gly														
										1010				1015				1020											
Met	Asp	Gln	Arg	Ala	Thr	Ala	Leu	Asn	Ser	Met	Tyr	Gln	Ser	Gly	Gln														
										1025				1030				1035				1040							
Val	Arg	Gly	Leu	Ser	Asn	Asn	Thr	Asp	Asn	Tyr	Phe	Ser	Arg	Val	Ala														
										1045				1050				1055											
Asn	Asn	Pro	Asn	Leu	Ser	Arg	Asp	Asp	Lys	Arg	Ala	Glu	Leu	Ala	Gln														
										1060				1065				1070											
Gln	Ala	Val	Phe	Thr	Tyr	Gly	Ala	Ser	Thr	Met	Ala	Thr	Gly	Ala	Glu														
										1075				1080				1085											
Arg	Glu	Gln	Leu	Lys	Ala	Asp	Thr	Gln	Lys	Ile	Leu	Asn	Glu	Leu	Gly														
										1090				1095				1100											
Asn	Tyr	Asn	Val	Asn	Trp	Ser	Met	Asn	Asp	Val	Lys	Ser	Ile	His	Ser														
										1105				1110				1115				1120							
Ser	Phe	Asn	Thr	His	Asn	Arg	Ala	Asp	Gly	Ser	Leu	Glu	Ser	Val	Val														
										1125				1130				1135											
Arg	Ala	Asn	Leu	Gly	Glu	Gly	Gly	Ser	Gly	Gly	Gly	Leu	Val	Gly	Asn														
										1140				1145				1150											
Arg	Thr	Gln	Thr	Val	Thr	Asp	Arg	Leu	Val	Gly	Glu	Lys	Ile	Glu	Ala														
										1155				1160				1165											
Asn	Thr	Glu	Arg	Gly	Ala	Ile	Ser	Gly	Ala	Leu	Leu	Gly	Gly	Gln	Gln														
										1170				1175				1180											
Phe	Val	Ser	Asp	Thr	Leu	Thr	Ser	Val	Gly	Ala	Lys	Pro	Val	Asn	Glu														
										1185				1190				1195				1200							
Met	Leu	Thr	Gly	Ala	Gly	Ile	Leu	Gln	Thr	Gln	Thr	Ser	Ile	Ala	Asn														
										1205				1210				1215											
Asp	Ala	Ser	Asn	Pro	Ala	Asn	Met	Pro	Asp	Ser	Leu	Gln	Gly	Lys	Val														
										1220				1225				1230											
Leu	Asn	His	Met	Gln	Met	Ser	Asp	Gly	Val	Ala	Ala	Val	Ser	Asp	Arg														
										1235				1240				1245											
Tyr	Gln	Ser	Ile	Ser	Ser	Asp	Gly	Val	Ser	Thr	Tyr	Ala	Asn	Ala	Ala														
										1250				1255				1260											
Gln	Asn	Ser	Glu	Arg	Ala	Ile	Arg	Gln	Gln	Leu	Thr	Asp	Asp	Pro	Arg														
										1265				1270				1275				1280							
Phe	Gly	Pro	Gln	Lys	Ala	Asp	Glu	Phe	Ile	Gln	Tyr	Met	Lys	Ser	Glu														
										1285				1290				1295											

Leu Ser Asn Thr Asn Glu Pro Tyr Gln Ser Arg Val Asp Lys Ala Asp
 1300 1305 1310
 Gln Trp Leu Asn Glu Asn Lys Lys
 1315 1320

<210> 7252

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7252

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7253

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 7253

Lys Arg Ile Thr Lys Leu Ser Leu His Trp Arg Ala Asn Val Val Glu
 1 5 10 15
 Gln Val Ser Gly Ile Leu Thr Arg Trp Arg Gln Phe Gly Arg Arg Tyr
 20 25 30
 Phe Trp Pro His Leu Leu Leu Gly Met Val Ala Ala Ser Leu Gly Leu
 35 40 45
 Pro Val Leu Ser Asn Ser Ala Asp Ala Ala Thr Pro Ala Arg Ser Thr
 50 55 60
 Thr Thr Lys His Asp Leu Thr Thr Arg Val Asn Phe Thr Asn Leu Ala
 65 70 75 80
 Trp Leu Glu Ala Ser Arg Arg Leu Asn Phe Ser Val Asp Tyr Trp Gln
 85 90 95
 Gln His Ala Asn Pro Thr Val Asn Arg His Leu Ser Phe Ala Arg Ala
 100 105 110
 Pro Thr Arg Met Leu Val Ala Glu Lys Asn Leu Pro Val Gln Ala Gln
 115 120 125
 His Leu Gly Leu Val Gln Ser Pro Asn Ala Ala Leu Asn Pro Gly Asn
 130 135 140
 Gln Pro Ala Ile Glu Pro
 145 150

<210> 7254
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 7254
 Ile His Ala Asp Gly Arg Ser Val Val Lys Thr Leu Cys Met Cys Gly
 1 5 10 15
 His Asn Ile Ile Gly Ala Phe Thr Ala Phe Lys Ser Gly His Ala Leu
 20 25 30
 Asn Asn Lys Leu Leu Gln Ala Val Leu Ala Lys Gln Glu Ala Trp Glu
 35 40 45
 Tyr Val Thr Phe Glu Asp Glu Ala Glu Leu Pro Leu Ala Phe Lys Ala
 50 55 60
 Pro Thr Met Val Leu Ala
 65 70

<210> 7255
 <211> 502
 <212> PRT
 <213> Enterobacter cloacae

<400> 7255
 Cys Leu Met Glu Ser Asp Val Met Thr Gln Pro Ala Lys Lys Ala Pro
 1 5 10 15
 Ser Ile Lys Leu Leu Phe Ser Ala Leu Leu Leu Val Met Leu Leu Ser
 20 25 30
 Ala Leu Asp Gln Thr Ile Val Ser Thr Ala Leu Pro Thr Ile Val Gly
 35 40 45
 Glu Leu Gly Gly Leu Asp Lys Leu Ser Trp Val Val Thr Ala Tyr Ile
 50 55 60
 Leu Ser Ser Thr Ile Val Val Pro Leu Tyr Gly Lys Phe Gly Asp Leu
 65 70 75 80
 Phe Gly Arg Lys Ile Val Leu Gln Ile Ala Ile Val Leu Phe Leu Val
 85 90 95
 Gly Ser Ala Leu Cys Gly Leu Ala Gln Asn Met Thr Gln Leu Val Leu
 100 105 110
 Met Arg Ala Leu Gln Gly Leu Gly Gly Gly Leu Met Val Ile Ser
 115 120 125
 Met Ala Ala Val Ala Asp Val Ile Pro Pro Ala Asp Arg Gly Arg Tyr
 130 135 140
 Gln Gly Leu Phe Gly Gly Val Phe Gly Leu Ala Thr Val Ile Gly Pro
 145 150 155 160
 Leu Ile Gly Gly Phe Ile Val Gln His Ala Ser Trp Arg Trp Ile Phe
 165 170 175
 Tyr Ile Asn Leu Pro Leu Gly Leu Phe Ala Leu Leu Val Ile Gly Ala
 180 185 190
 Val Phe His Gly Ser Ala Arg Arg Ser Lys His Glu Ile Asp Tyr Leu
 195 200 205
 Gly Ala Ile Tyr Leu Ser Met Ala Leu Leu Cys Ile Ile Leu Phe Thr
 210 215 220
 Thr Glu Gly Gly Thr Ile Arg Gln Trp Ser Asp Pro Gln Leu Trp Cys
 225 230 235 240
 Ile Leu Ala Phe Gly Leu Thr Gly Ile Ala Gly Phe Ile Tyr Glu Glu
 245 250 255
 Arg Leu Ala Trp Glu Pro Ile Ile Pro Leu Ser Leu Phe Arg Asp Arg
 260 265 270
 Ser Phe Leu Leu Cys Ser Leu Ile Gly Phe Ile Ile Gly Met Ser Leu
 275 280 285
 Phe Gly Ser Val Thr Phe Leu Pro Leu Tyr Leu Gln Val Val Lys Asp
 290 295 300

Ala Thr Pro Thr Gln Ala Gly Leu Gln Leu Ile Pro Leu Met Gly Gly
 305 310 315 320
 Leu Leu Leu Thr Ser Ile Ile Ser Gly Arg Ile Ile Ser Arg Thr Gly
 325 330 335
 Lys Tyr Arg Leu Phe Pro Ile Leu Gly Thr Leu Leu Gly Val Val Gly
 340 345 350
 Met Met Leu Leu Thr Arg Ile Ser Ile Thr Ser Pro Thr Trp Gln Leu
 355 360 365
 Tyr Leu Phe Thr Gly Val Leu Gly Met Gly Leu Gly Leu Val Met Gln
 370 375 380
 Val Leu Val Leu Ala Val Gln Asn Ser Val Ser Ala Asp Gln Tyr Gly
 385 390 395 400
 Val Ala Thr Ser Gly Val Thr Leu Phe Arg Ser Ile Gly Gly Ala Ile
 405 410 415
 Gly Val Ala Leu Phe Gly Ala Val Phe Thr His Ile Leu Gln Ser Gly
 420 425 430
 Leu Ile Asp Arg Leu Pro Glu Gly Ala Glu Leu Pro Arg Glu Leu Asn
 435 440 445
 Pro Val Ala Ile His His Leu Pro Asp Ala Leu Arg Leu Asp Tyr Leu
 450 455 460
 Asp Ala Phe Gly Ser Ala Ile His Ala Val Phe Met Leu Ala Ala Glu
 465 470 475 480
 Ile Met Val Leu Ala Phe Val Leu Ser Trp Phe Leu Arg Glu Ala Pro
 485 490 495
 Leu Arg Arg Gln Ala
 500

<210> 7256
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 7256
 Ala Val Arg Tyr Ser Asp Cys Ala Glu Asn Lys Glu Arg Phe Met His
 1 5 10 15
 Leu Ser Ile Thr Asp Lys Val Thr Ala Glu Glu Lys Glu Glu Leu Leu
 20 25 30
 Thr Gly Leu Arg Ala Tyr Asn Ala Gln Tyr Leu Asp Leu Ala Thr Phe
 35 40 45
 Ser Gly Asp Ile Gly Val Tyr Met Arg Asp Asp Asn Gly Val Met Leu
 50 55 60
 Gly Gly Leu Ile Gly Val Arg Lys Gly Asp Trp Leu Asn Ile Asp Tyr
 65 70 75 80
 Leu Trp Val Ser Asp Ser Val Arg Gly Thr Gly Val Gly Ser Gln Leu
 85 90 95
 Ile Lys Thr Ala Glu Glu Glu Ala Arg Arg Lys Gly Cys Arg His Ala
 100 105 110
 Leu Val Asp Thr Val Ser Phe Gln Ala Arg Pro Phe Tyr Glu Lys Gln
 115 120 125
 Gly Tyr Gln Val Gln Met Ser Leu Gln Asp Tyr Pro Tyr Gln Gly Met
 130 135 140
 Gln Arg His Tyr Leu Ser Lys Asn Leu
 145 150

<210> 7257
 <211> 321
 <212> PRT
 <213> Enterobacter cloacae

<400> 7257
 Gln Gly Arg Glu Met Ser Thr Ile Asn Asp Val Ser Arg Leu Ala Gly

1	5	10	15
Val Ser Lys	Ala Thr Val Ser Arg	Val Leu Ser Gly Ser	Arg Gly Val
	20	25	30
Lys Glu Ala	Ser Arg Gln Ala Val	Leu Lys Ala Val	Asp Glu Leu Asn
	35	40	45
Tyr Arg Pro	Asn Val Ile Ala Gln Ser	Leu Leu Ser Gln Ser	Thr Gly
	50	55	60
Cys Ile Gly	Val Ile Cys Ala Gln Glu	Asn Ile Asn Gln Thr	Thr Gly
	65	70	75
Tyr Leu Tyr	Ala Leu Glu Lys His Leu	Ser Gln His Gln Lys	His Leu
	85	90	95
Leu Leu Arg	Phe Ala His Thr Lys Thr	Glu Val Met Asn Ala	Leu Glu
	100	105	110
Glu Leu Ser	Cys Gly Leu Cys Asp	Ile Leu Val Ile Gly	Ala Arg
	115	120	125
Phe Pro Leu	Asp Val Asp Met Asp	Asn Val Ile Leu Val	Asp Cys Met
	130	135	140
Glu Ala Asp	Asn Ala Asn Ser Ile Gln	Phe Asp His Ala Phe	Ala Ala
	145	150	155
Glu Thr Ala	Cys Asn Tyr Leu Thr Ser	Gln Gly Arg Arg Gln	Ile Ala
	165	170	175
Leu Ile His	Pro His Gly Ser Gly Phe	Ala Asp Gln Val Leu	Gly
	180	185	190
Tyr Lys His	Ala Leu Glu Lys Asn Phe	Leu Pro Phe Asn Arg	Asn Leu
	195	200	205
Val Phe Met	Asp Ala Thr Ser Ser Ser	Val Ala Leu Gln Glu	Leu Leu
	210	215	220
Asn Asn Ala	Ser Thr Leu Asn Phe Asn	Ala Leu Leu Val Ala	Asp Glu
	225	230	235
Gln Glu Ala	Gln Arg Val Ile Pro Gln	Leu Gln Ala Phe Asn	Lys Ser
	245	250	255
Val Pro Glu	Asp Ile Met Val Phe Ser	Leu Gly Gly Ser Leu	His Leu
	260	265	270
Pro Gly Ile	Pro Val Ile Pro Ala Ile	Glu Tyr Ser Met Asp	Ala Met
	275	280	285
Ala Ala Arg	Ile Val Ser Trp Leu Thr	Glu Lys Thr Gln Met	Leu Gly
	290	295	300
Ser Tyr Val	Leu Arg Gly Asp Leu Ile	Ile Pro Asp Val Arg	Lys Arg
	305	310	315
			320

<210> 7258

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7258

Ile Arg Ser	Arg Asp Thr Val Thr Met	Pro Ala Gln Lys Asp	Asn Ser
1	5	10	15
Glu Pro Arg	Arg Pro Gly Arg Pro	Arg Gly Gly Lys Arg	Val Thr Ala
	20	25	30
Ser Arg Glu	Gln Leu Leu Asp Ile Ala	Leu Asn Leu Phe Ser	Arg Gln
	35	40	45
Gly Ile Ala	Asn Thr Ser Leu Asn Ala	Ile Ala Arg Glu Ala	Gly Val
	50	55	60
Thr Pro Ala	Met Leu His Tyr Tyr Phe	Asn Ser Arg Glu Gln	Leu Leu
	65	70	75
Asp Ala Met	Ile Glu Glu Arg Phe Leu	Pro Leu Arg Glu Arg	Ile Gly
	85	90	95
Ala Ile Phe	Ala Asp Asn Arg Asp Ser	Pro Val Asp Ala Leu	Thr Glu

			100					105					110		
Met	Val	Arg	Val	Leu	Ala	Glu	Leu	Ala	Glu	Lys	Tyr	Arg	Trp	Phe	Ala
		115					120					125			
Pro	Leu	Trp	Met	Gln	Glu	Val	Ile	Gly	Glu	Met	Pro	Val	Leu	Arg	Thr
	130					135					140				
His	Leu	Gln	Ala	Arg	Phe	Gly	Asp	Glu	Lys	Tyr	His	Thr	Thr	Leu	Ala
145					150					155					160
Thr	Ile	Lys	Gly	Trp	Gln	Gln	Glu	Gly	Lys	Leu	Asn	Pro	Ala	Leu	Ala
				165					170					175	
Pro	Glu	Leu	Leu	Phe	Thr	Thr	Leu	Leu	Ser	Leu	Val	Leu	Val	Pro	Phe
		180					185					190			
Ser	Arg	Met	Arg	Asn	Asp	Glu	Arg	Leu	Ser	Ala	Leu	Ser	Pro	Glu	Ile
		195					200					205			
Val	Val	Arg	His	Val	Leu	Ala	Val	Ile	Gly	Thr	Gly	Ile	Gly	Gly	
	210					215					220				

<210> 7259

<211> 1047

<212> PRT

<213> Enterobacter cloacae

<400> 7259

Arg 1	Asp	Glu	Asn	Gln 5	Arg	Arg	Lys	Arg	Leu 10	Met	Phe	Ser	Arg	Phe 15	Phe
Val	Arg	Arg	Pro 20	Val	Phe	Ala	Trp	Val 25	Ile	Ala	Ile	Leu 30	Ile	Met	Leu
Ala	Gly	Ile 35	Leu	Ala	Ile	Arg	Thr 40	Leu	Pro	Val	Ala	Gln 45	Tyr	Pro	Asp
Val	Ala 50	Pro	Pro	Ser	Ile	Lys 55	Ile	Ser	Ala	Thr	Tyr 60	Thr	Gly	Ala	Ser
Ala 65	Gln	Thr	Leu	Glu	Asn 70	Ser	Val	Thr	Gln	Val 75	Ile	Glu	Gln	Gln	Leu 80
Thr	Gly	Leu	Asp 85	Asn	Leu	Leu	Tyr	Phe	Thr 90	Ser	Thr	Ser	Ser	Ser	Asp
Gly	Ser	Val 100	Ser	Ile	Asn	Val	Thr	Phe 105	Glu	Gln	Gly	Thr 110	Asp	Pro	Asp
Thr	Ala 115	Gln	Val	Gln	Val	Gln	Asn 120	Lys	Val	Gln	Gln	Ala 125	Glu	Ser	Arg
Leu	Pro 130	Thr	Glu	Val	Gln	Gln	Ser 135	Gly	Ile	Thr	Val 140	Glu	Lys	Ser	Gln
Ser 145	Asn	Phe	Leu	Leu 150	Ile	Met	Gly	Val	Tyr	Asp 155	Lys	Thr	Asp	Thr	Ala 160
Ser	Ser	Ser	Asp 165	Ile	Ala	Asp	Trp	Leu	Val 170	Ser	Asn	Met	Gln	Asp	Pro 175
Leu	Ala 180	Arg	Val	Asp	Gly	Val	Gly 185	Ser	Leu	Gln	Val	Phe 190	Gly	Ala	Glu
Tyr	Ala 195	Met	Arg	Ile	Trp	Leu	Asp 200	Pro	Ala	Lys	Leu 205	Ala	Ser	Tyr	Ser
Leu	Met 210	Pro	Ser	Asp	Val	Gln	Ser 215	Ala	Ile	Glu	Ala 220	Gln	Asn	Val	Gln
Val 225	Ser	Ala	Gly	Lys	Ile 230	Gly	Ala	Leu	Pro	Ser	Ser 235	Asn	Ala	Gln	Gln 240
Leu	Thr 245	Ala	Thr	Val	Arg	Ala	Gln	Ser	Arg 250	Leu	Gln	Thr	Val	Asp 255	Glu
Phe	Lys 260	Lys	Ile	Ile	Val	Lys	Ser 265	Gln	Ser	Asn	Gly	Ala 270	Val	Val	Arg
Ile	Ser 275	Asp	Val	Ala	Arg	Val	Glu 280	Met	Gly	Ser	Glu 285	Asp	Tyr	Thr	Ala
Thr	Ala 290	Lys	Leu	Asn	Gly	His 295	Pro	Ala	Ala	Gly	Met 300	Ala	Val	Met	Leu
Ser	Pro	Gly	Ala	Asn	Ala	Leu	Asn	Thr	Ala	Thr	Ala	Val	Lys	Asp	Lys

305					310				315				320			
Ile	Ala	Glu	Phe	Lys	Lys	Ser	Met	Pro	Glu	Gly	Tyr	Asp	Val	Ala	Tyr	
				325					330					335		
Pro	Lys	Asp	Ser	Thr	Glu	Phe	Ile	Lys	Ile	Ser	Val	Glu	Asp	Val	Ile	
			340					345					350			
Gln	Thr	Leu	Phe	Glu	Ala	Ile	Ile	Leu	Val	Val	Val	Val	Met	Tyr	Leu	
		355				360						365				
Phe	Leu	Gln	Asn	Ile	Arg	Ala	Thr	Leu	Ile	Pro	Ala	Leu	Ala	Val	Pro	
	370					375					380					
Val	Val	Leu	Leu	Gly	Thr	Phe	Gly	Val	Leu	Ala	Leu	Phe	Gly	Tyr	Ser	
385				390						395					400	
Ile	Asn	Thr	Leu	Thr	Leu	Phe	Ala	Met	Val	Leu	Ala	Ile	Gly	Leu	Leu	
				405					410					415		
Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	Ile	Met	Arg	
			420					425					430			
Asp	Glu	Gly	Leu	Pro	Ala	Arg	Glu	Ala	Thr	Glu	Lys	Ser	Met	Gly	Glu	
		435					440						445			
Ile	Ser	Gly	Ala	Leu	Ile	Ala	Ile	Ala	Leu	Val	Leu	Ser	Ala	Val	Phe	
	450					455					460					
Leu	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr	Gly	Val	Ile	Tyr	Arg	Gln	
465				470						475					480	
Phe	Ser	Val	Thr	Ile	Ile	Ser	Ala	Met	Phe	Leu	Ser	Val	Val	Val	Ala	
				485					490					495		
Leu	Thr	Leu	Thr	Pro	Ala	Leu	Cys	Gly	Ser	Ile	Leu	Asn	His	Thr	Ala	
			500					505					510			
Pro	His	Lys	Lys	Gly	Phe	Phe	Gly	Ala	Phe	Asn	Arg	Phe	Tyr	Ser	Lys	
		515					520						525			
Thr	Glu	His	Ser	Tyr	Gln	Asn	Lys	Val	Leu	Arg	Ala	Leu	Arg	Arg	Ser	
	530					535					540					
Gly	Gly	Met	Leu	Val	Ile	Tyr	Ala	Leu	Leu	Cys	Gly	Ala	Met	Gly	Phe	
545				550						555					560	
Ala	Met	Leu	Lys	Leu	Pro	Gly	Ser	Phe	Leu	Pro	Thr	Glu	Asp	Gln	Gly	
				565					570					575		
Glu	Ile	Met	Val	Gln	Tyr	Thr	Leu	Pro	Ala	Gly	Ala	Thr	Ala	Val	Arg	
			580					585					590			
Thr	Ala	Glu	Val	Ser	Arg	Gln	Val	Arg	Glu	Trp	Phe	Leu	Thr	Lys	Glu	
		595				600						605				
Lys	Ala	Asn	Thr	Asn	Val	Ile	Phe	Thr	Ile	Glu	Gly	Phe	Ser	Phe	Ser	
	610					615					620					
Gly	Ser	Gly	Gln	Asn	Ala	Gly	Met	Ala	Phe	Val	Ser	Leu	Lys	Asn	Trp	
625				630					635						640	
Ser	Glu	Arg	Lys	Gly	Asp	Glu	Asn	Thr	Ala	Gln	Ala	Ile	Ala	Leu	Arg	
				645					650					655		
Ala	Thr	Gln	Glu	Leu	Ser	Thr	Ile	Arg	Asp	Ala	Thr	Ile	Phe	Ala	Met	
			660					665								

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<210> 7260
<211> 388
<212> PRT
<213> Enterobacter cloacae
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Ile	Pro	Met	Ala	Lys	Val	Ser	Phe	Ser	Phe	Ala	Ala	Ile	Leu	Gly	Leu
1				5					10					15	
Leu	Thr	Ala	Ile	Gly	Pro	Leu	Cys	Ser	Asp	Phe	Tyr	Leu	Pro	Ala	Leu
			20					25					30		
Pro	Glu	Ile	Ala	Thr	Gln	Leu	Asn	Thr	Ser	Thr	Thr	Leu	Thr	Gln	Leu
			35				40					45			
Ser	Leu	Thr	Ser	Ala	Leu	Ile	Gly	Leu	Gly	Leu	Gly	Gln	Leu	Phe	Phe
						55					60				
Gly	Pro	Leu	Ser	Asp	Arg	Ile	Gly	Arg	Lys	Thr	Pro	Leu	Leu	Phe	Ser
65					70					75					80
Leu	Leu	Leu	Phe	Val	Leu	Ala	Ser	Val	Leu	Cys	Ala	Ser	Thr	Gln	Asn
				85					90					95	
Ile	Tyr	Ala	Leu	Ile	Gly	Trp	Arg	Phe	Val	Gln	Gly	Val	Ala	Gly	Ala
			100					105					110		
Gly	Gly	Ser	Val	Leu	Ala	Arg	Ser	Ile	Ala	Arg	Asp	Asn	Tyr	His	Gly
			115				120					125			
Thr	Met	Leu	Thr	Gln	Phe	Phe	Ala	Leu	Leu	Met	Thr	Val	Asn	Gly	Ile
						135					140				
Ala	Pro	Val	Val	Ser	Pro	Val	Leu	Gly	Gly	Tyr	Ile	Ala	Ser	His	Phe
145					150					155					160
Asp	Trp	Arg	Met	Leu	Phe	Trp	Val	Met	Ala	Gly	Ala	Gly	Leu	Ala	Leu
				165					170						175

Leu Ile Ala Ser Gln Leu Phe Ile Arg Glu Ser Leu Thr Glu Lys Gln
 180 185 190
 Gly Arg Gly Ser Leu Thr Gln Thr Ala Arg Thr Val Leu Lys Asn Arg
 195 200 205
 Arg Phe Met Arg Tyr Cys Leu Ile Gln Ala Phe Met Leu Ala Gly Leu
 210 215 220
 Phe Ala Tyr Ile Gly Ala Ser Ser Phe Val Met Gln Asn Glu Tyr Gly
 225 230 235 240
 Leu Ser Ala Met Gln Phe Ser Leu Leu Phe Gly Val Asn Gly Ile Gly
 245 250 255
 Leu Ile Val Ser Ala Leu Ile Phe Ser Arg Leu Ala Arg Arg His Leu
 260 265 270
 Ala Glu Arg Leu Met Arg Thr Gly Leu Val Leu Ala Leu Ser Cys Ala
 275 280 285
 Gly Leu Thr Leu Leu Phe Ala Trp Met Gln Leu Ser Val Pro Ala Leu
 290 295 300
 Val Ala Leu Phe Phe Thr Val Ala Phe Asn Ser Gly Ile Ser Thr Ile
 305 310 315 320
 Ala Gly Ser Glu Ala Met Ser Ala Val Asp Thr Lys Glu Ser Gly Thr
 325 330 335
 Ala Ser Ala Ile Leu Gly Met Leu Met Phe Leu Phe Gly Gly Ile Ala
 340 345 350
 Ala Pro Leu Ala Gly Ile Gly Gly Glu Thr Met Leu Lys Met Ser Leu
 355 360 365
 Ala Val Leu Val Ser Tyr Gly Ile Ala Leu Ala Ile Gly Tyr Arg Thr
 370 375 380
 Gln Asn Ala
 385

<210> 7261

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 7261

Gly Trp Leu Ser Met Phe Lys Ile Met Leu Cys Cys Ser Ala Gly Met
 1 5 10 15
 Ser Thr Ser Leu Val Ser Lys Met Ile Asp Val Ala Lys Glu Arg
 20 25 30
 Gly Leu Pro Val Lys Ile Asp Ala Tyr Gly Val Ser Glu Phe Asp Thr
 35 40 45
 Gln Phe Pro His Tyr Gln Val Val Leu Leu Gly Pro Gln Val Lys Tyr
 50 55 60
 Met Leu Lys Thr Leu Ser Asp Lys Ala Ala Thr Gln Gly Ile Pro Val
 65 70 75 80
 Gln Pro Ile Asp Met Met Asp Tyr Gly Met Gln Arg Gly Asp Lys Val
 85 90 95
 Leu Asp Tyr Ala Leu Ser Leu Ile Glu Ala Ala His
 100 105

<210> 7262

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7262

Pro Thr Met Ser Thr Lys Leu Glu Glu Arg Gln Lys Leu Arg Gln Asp
 1 5 10 15
 Glu Ile Ile Thr Ala Ala Arg Arg Cys Phe Arg Ala Ser Gly Phe His
 20 25 30
 Ala Ala Ser Met Ser Gln Ile Ala Ser Glu Ala Arg Leu Ser Val Gly

	35					40				45					
Gln	Ile	Tyr	Arg	Tyr	Phe	Ser	Asn	Lys	Asp	Ala	Ile	Ile	Glu	Glu	Met
	50					55					60				
Ile	Arg	Arg	Ile	Ile	Asp	Ser	Arg	Ile	Glu	Glu	Met	Gln	Gly	Lys	Thr
65					70					75					80
Leu	Val	Glu	Gly	Met	Pro	Gln	Ala	Leu	Ala	Trp	Arg	Gln	Thr	Leu	Asn
				85					90					95	
Glu	Asp	Asp	Asp	Ala	Leu	Met	Leu	Glu	Met	Ser	Ala	Glu	Ala	Thr	Arg
				100				105					110		
Asn	Pro	Leu	Val	Ala	Asn	Met	Leu	Ile	Glu	Ala	Glu	Ala	Arg	Met	Phe
		115					120					125			
Ala	Asn	Ala	Cys	Glu	His	Leu	Lys	Lys	Gln	Phe	Pro	His	Leu	Ser	Asp
	130					135					140				
Glu	His	Ile	Arg	Cys	Cys	Val	Glu	Ile	Thr	Ala	Val	Met	Ile	Glu	Gly
145				150						155					160
Thr	Ile	Tyr	Arg	Arg	Leu	Thr	Pro	Leu	Lys	Val	Pro	Ser	Glu	Gln	Leu
				165					170					175	
Glu	Pro	Ile	Tyr	Gln	Asn	Ile	Leu	Asn	Met	Leu	Phe	Ser	Ala	Lys	
			180					185					190		

<210> 7263

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7263

Gln	Gly	Arg	Leu	Arg	Ser	Pro	Trp	Lys	Lys	Ile	Met	Lys	Thr	Ile	Thr
1			5					10						15	
Thr	Ser	Ile	Ala	Ala	Leu	Leu	Leu	Leu	Thr	Gly	Cys	Asp	Asn	Ala	Gln
			20					25					30		
Thr	Ser	Ala	Pro	Gln	Arg	Pro	Leu	Pro	Glu	Val	Gly	Ile	Val	Thr	Leu
		35					40					45			
Met	Ser	Gln	Pro	Val	Ser	Val	Val	Ser	Glu	Leu	Thr	Gly	Arg	Thr	Ala
	50					55					60				
Ala	Ala	Met	Ser	Ala	Glu	Val	Arg	Pro	Gln	Val	Gly	Gly	Ile	Ile	Gln
65					70					75					80
Lys	Arg	Leu	Phe	Thr	Glu	Gly	Asp	Thr	Val	Lys	Ala	Gly	Gln	Ala	Leu
				85				90					95		
Tyr	Gln	Ile	Asp	Pro	Ser	Ser	Tyr	Arg	Ala	Ala	Tyr	Asn	Glu	Ala	Ala
			100					105					110		
Ala	Ala	Leu	Lys	Gln	Ala	Gln	Ala	Leu	Val	Gln	Ala	Asp	Cys	Gln	Lys
		115					120					125			
Ala	Arg	Arg	Tyr	Ala	Gln	Leu	Val	Lys	Asp	Asp	Gly	Val	Ser	Arg	Gln
	130					135					140				
Asp	Ala	Glu	Asp	Ala	Lys	Ser	Thr	Cys	Ala	Gln	Asp	Lys	Ala	Ser	Val
145					150					155					160
Glu	Ser	Lys	Lys	Ala	Ala	Leu	Glu	Ser	Ala	Arg	Ile	Asn	Leu	Asn	Trp
				165					170					175	
Thr	Thr	Val	Thr	Ala	Pro	Ile	Ala	Gly	Arg	Ile	Gly	Ile	Ser	Ser	Val
			180					185					190		
Thr	Pro	Gly	Ala	Leu	Val	Thr	Thr	Gln	Gln	Asp	Thr	Ala	Leu	Ala	Thr
		195					200					205			
Ile	Arg	Gly	Leu	Asp	Ser	Met	Tyr	Val	Asp	Leu	Thr	Arg	Ser	Ser	Ala
	210					215					220				
Asp	Leu	Leu	Arg	Leu	Arg	Lys	Gln	Thr	Leu	Ala	Ser	Asn	Ser	Asp	Thr
225					230					235					240
Leu	Asn	Val	Ser	Leu	Ile	Leu	Glu	Asp	Gly	Ser	Ser	Tyr	Ser	Glu	Lys
				245					250					255	
Gly	His	Leu	Ala	Leu	Thr	Glu	Val	Ala	Val	Asp	Glu	Ser	Thr	Gly	Ser
			260					265					270		
Val	Thr	Leu	Arg	Ala	Val	Phe	Pro	Asn	Pro	Gln	His	Gln	Leu	Leu	Pro

	275						280				285					
Gly	Met	Phe	Val	Arg	Ala	Arg	Val	Asp	Glu	Gly	Ile	Met	Asn	Asp	Ala	
	290						295				300					
Ile	Leu	Ala	Pro	Gln	Gln	Gly	Ile	Thr	Arg	Asp	Ala	Lys	Gly	Thr	Ala	
305					310					315					320	
Thr	Ala	Leu	Val	Val	Asn	Ala	Ser	Asn	Lys	Val	Glu	Gln	Arg	Gln	Leu	
				325					330					335		
Glu	Thr	Gly	Asp	Thr	Tyr	Gly	Asp	Lys	Trp	Leu	Val	Leu	Ser	Gly	Leu	
			340				345						350			
Lys	Ala	Gly	Asp	Lys	Leu	Ile	Val	Glu	Gly	Thr	Asp	Lys	Val	Thr	Ala	
		355					360					365				
Gly	Gln	Glu	Val	Lys	Ala	Glu	Glu	Met	Lys	Thr	Asn	Gly	Gly	Asn	Ala	
	370						375				380					

385

<210> 7264

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7264

Ala 1	Arg	Lys	Pro	Glu 5	Val	Ile	Met	Phe	Arg 10	Val	Thr	Val	Leu 15	Thr	Leu
Ala	Leu	Leu	Ser 20	Ala	Gly	Cys	Val	Ser 25	Leu	Asp	Pro	Thr	Tyr 30	Gln	Arg
Pro	Asp	Ala 35	Pro	Val	Pro	Thr	Thr 40	Leu	Pro	Gly	Ala	His 45	Gly	Glu	Ala
Asn	Ala 50	Val	Val	Ser	Gln	Trp 55	Gln	Gln	Val	Met	Asn 60	Asp	Ala	Arg	Leu
Lys 65	Ser	Val	Val	Thr	Met 70	Ala	Leu	Asn	Ser	Asn 75	Arg	Asp	Val	Gln	Lys 80
Ala	Ile	Ala	Asp	Ile 85	Asp	Ala	Ala	Arg	Ala 90	Gln	Tyr	Gly	Glu	Thr 95	Arg
Ser	Ser	Leu	Phe 100	Pro	Thr	Val	Asp	Ala 105	Glu	Leu	Ser	His 110	Thr	Arg	Ser
Arg	Thr	Leu 115	Ala	Ser	Gly	Val	Ala 120	Thr	Ser	Asp	Glu	Ala 125	Asn	Gly	Ala
Val	Ser	Ser	Phe 130	Glu	Leu	Asp 135	Leu	Phe	Gly	Arg	Asn 140	Gln	Ser	Leu	Ser
Arg 145	Ala	Ala	Arg	Glu	Thr 150	Trp	Leu	Ala	Ser	Glu 155	Phe	Thr	Ala	Gln	Asn 160
Thr	Arg	Leu	Thr	Met 165	Val	Ser	Glu	Leu	Thr 170	Thr	Ala	Trp	Val	Thr 175	Leu
Ala	Ala	Asp	Asn 180	Ser	Asn	Leu	Ala	Leu 185	Ala	Lys	Ser	Thr	Leu 190	Glu	Ser
Ala	Ala	Asn 195	Ser	Leu	Lys	Ile	Val 200	Lys	Arg	Gln	Gln	Glu	Val 205	Gly	Val
Ala	Ala 210	Ala	Thr	Asp	Val	Ser 215	Glu	Ala	Met	Ala	Val 220	Tyr	Gln	Gln	Ala
Arg 225	Ala	Ser	Val	Ala	Ser 230	Tyr	Gln	Thr	Leu	Val 235	Met	Gln	Asp	Lys	Asn 240
Ala	Leu	Asn	Leu	Leu 245	Ala	Gly	Asp	Thr	Val 250	Pro	Glu	Asn	Leu	Leu 255	Pro
Gly	Thr	Leu	Glu 260	Ser	Leu	Ser	Asp	Asn 265	Ala	Ile	Thr	Leu	Ile 270	Pro	Ala
Gly	Val	Ser 275	Ser	Ser	Ala	Leu	Leu 280	Arg	Arg	Pro	Asp	Ile 285	Gln	Glu	Ala
Glu	His 290	Asn	Leu	Leu	Ser	Ala 295	Asn	Ala	Asn	Ile	Gly 300	Ala	Ala	Arg	Ala
Asn	Phe	Phe	Pro	Thr	Ile	Ser	Leu	Thr	Ala	Ser	Ala	Gly	Val	Gly	Ser

305					310					315				320
Asp	Ser	Leu	Ser	Ser	Leu	Phe	Ser	His	Gly	Met	Lys	Val	Trp	Ser
				325					330					335
Ala	Pro	Ser	Ile	Thr	Leu	Pro	Leu	Phe	Ser	Gly	Gly	Asn	Asn	Met
			340					345					350	Ala
Gln	Leu	Arg	Tyr	Ala	Glu	Ala	Glu	Lys	Lys	Gly	Leu	Ile	Ala	Thr
		355					360					365		Tyr
Glu	Lys	Thr	Ile	Gln	Ser	Ala	Phe	Lys	Asp	Val	Ala	Asp	Ala	Leu
	370					375				380				Ala
Arg	Arg	Glu	Thr	Leu	Ser	Glu	Gln	Leu	Asp	Ala	Gln	Arg	Glu	Tyr
385					390					395				Val
Ala	Ala	Glu	Gln	Lys	Thr	Leu	Asp	Val	Ala	Thr	Arg	Ser	Tyr	Lys
				405					410					Ala
Gly	Ala	Gly	Asp	Tyr	Leu	Thr	Val	Leu	Thr	Ala	Gln	Arg	Ser	Leu
			420				425						430	Trp
Ser	Ala	Gln	Glu	Ser	Leu	Ile	Ala	Leu	Gln	Gln	Thr	Asp	Leu	Glu
	435					440						445		Asn
Arg	Ile	Thr	Leu	Trp	Gln	Ser	Leu	Gly	Gly	Gly	Ile	Gln		
	450					455					460			

<210> 7265

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 7265

Ser	Thr	Gly	Leu	Cys	Ser	Val	Ala	Tyr	Arg	Ser	Gly	Thr	Leu	Lys	Gly
1				5					10					15	
Val	His	Met	Ser	Ser	Leu	Tyr	Gln	Ser	Met	Val	Ala	Val	Ile	Glu	Gln
			20					25					30		
Ser	Ile	Thr	Pro	Leu	Ala	Ala	Lys	Leu	Gly	Gln	Gln	Lys	Tyr	Val	Ile
		35					40					45			
Ala	Ile	Arg	Asp	Gly	Phe	Thr	Ala	Ala	Leu	Pro	Phe	Met	Ile	Ile	Gly
	50					55				60					
Ser	Phe	Met	Leu	Val	Phe	Ile	Phe	Pro	Pro	Phe	Ser	Ala	Asp	Thr	Thr
65					70				75					80	
Asn	Ser	Phe	Ala	Arg	Gly	Trp	Leu	Asp	Phe	Ser	Glu	Thr	Tyr	Arg	Glu
				85				90						95	
Gln	Leu	Met	Leu	Pro	Phe	Asn	Leu	Ser	Met	Gly	Val	Met	Thr	Phe	Phe
			100					105					110		
Ile	Ser	Val	Gly	Ile	Gly	Ala	Ser	Leu	Gly	Arg	Gln	Phe	Asn	Leu	Asp
	115						120					125			
Pro	Val	Met	Ser	Gly	Leu	Leu	Ala	Phe	Met	Ala	Phe	Leu	Leu	Val	Ala
	130					135				140					
Ala	Pro	Tyr	Ala	Asp	Gly	Lys	Ile	Ser	Thr	Gln	Tyr	Leu	Ser	Gly	Gln
145				150					155					160	
Gly	Ile	Phe	Thr	Ala	Leu	Ile	Thr	Ala	Ile	Tyr	Ser	Thr	Arg	Val	Tyr
			165						170					175	
Ala	Trp	Leu	Lys	Gln	Asn	Asn	Val	Thr	Ile	Arg	Leu	Pro	Lys	Glu	Val
		180					185						190		
Pro	Thr	Gly	Val	Ala	Arg	Ser	Phe	Glu	Ile	Leu	Ile	Pro	Val	Met	Val
	195					200						205			
Val	Ile	Gly	Thr	Leu	His	Pro	Leu	Asn	Leu	Phe	Ile	Glu	Ala	Gln	Thr
	210					215					220				
Gly	Met	Ile	Ile	Pro	Gln	Ala	Ile	Met	His	Leu	Leu	Glu	Pro	Leu	Val
225				230					235					240	
Ser	Ala	Ser	Asp	Ser	Leu	Pro	Ala	Ile	Leu	Leu	Ser	Val	Leu	Leu	Cys
				245					250					255	
Gln	Ile	Phe	Trp	Phe	Ala	Gly	Ile	His	Gly	Ser	Leu	Ile	Val	Thr	Gly
	260						265						270		
Ile	Met	Asn	Pro	Phe	Trp	Met	Ala	Asn	Leu	Ser	Ala	Asn	Gln	Ala	Ala

275	280	285
Leu Ala Gly Ala Ala	Leu Pro His Val Tyr	Leu Gln Gly Phe Trp
290	295	300
Asp His Tyr Leu Leu	Ile Gly Gly Val Gly	Ser Thr Leu Pro Leu Ala
305	310	315
Phe Leu Leu Leu Arg	Ser Arg Val Thr His	Leu Arg Thr Ile Gly Lys
325	330	335
Met Gly Val Val Pro	Ser Phe Phe Asn Ile	Asn Glu Pro Ile Leu Phe
340	345	350
Gly Ala Pro Ile Ile	Met Asn Pro Met Leu	Phe Ile Pro Phe Val Phe
355	360	365
Val Pro Leu Val Asn	Ala Cys Leu Ala Tyr	Gly Ala Thr Lys Leu Gly
370	375	380
Trp Leu Ala Gln Val	Val Ser Leu Thr Pro	Trp Thr Thr Pro Ala Pro
385	390	395
Ile Gly Ala Ser Trp	Ala Ala Asn Trp Ala	Leu Ser Pro Val Val Met
405	410	415
Cys Leu Ile Cys Met	Val Met Ser Ala Leu	Met Tyr
420	425	

<210> 7266

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7266

Ile Met Met Lys Arg	Asn Ile Leu Ala Val	Val Val Pro Ala Leu Leu
1	5	10
Val Ala Gly Ala Ala	Asn Ala Ala Glu Ile	Tyr Asn Lys Asp Gly Asn
20	25	30
Lys Leu Asp Leu Tyr	Gly Lys Ala Val Gly	Leu His Tyr Phe Ser Asp
35	40	45
Asn Asp Ser Asn Asp	Gly Asp Asn Thr Tyr	Ala Arg Leu Gly Phe Lys
50	55	60
Gly Glu Thr Gln Ile	Asn Asp Gln Leu Thr	Gly Tyr Gly Gln Trp Glu
65	70	75
Tyr Asn Phe Gln Gly	Asn Asn Ser Glu Gly	Gly Asp Ala Gln Asn Gly
85	90	95
Asn Lys Thr Arg Leu	Ala Phe Ala Gly Leu	Lys Phe Gly Asp Ala Gly
100	105	110
Ser Phe Asp Tyr Gly	Arg Asn Tyr Gly Leu	Val Tyr Asp Ala Ile Gly
115	120	125
Ile Thr Asp Met Leu	Pro Glu Phe Gly Gly	Asp Thr Gly Ala Ser Asp
130	135	140
Asn Phe Phe Ala Gly	Arg Thr Gly Gly Leu	Ala Thr Tyr Arg Asn Ser
145	150	155
Asn Phe Phe Gly Leu	Val Asp Gly Leu Asn	Phe Gly Val Gln Tyr Leu
165	170	175
Gly Lys Asn Glu Arg	Thr Asp Ala Val Arg	Ser Asn Gly Asp Gly Trp
180	185	190
Ala Thr Ser Leu Ser	Tyr Asp Phe Glu Gly	Phe Gly Ile Val Gly Ala
195	200	205
Tyr Gly Ala Ala Asp	Arg Thr Asn Asn Gln	Gln Thr Leu Glu Trp Gly
210	215	220
Lys Gly Asp Lys Ala	Glu Gln Trp Ala Thr	Gly Leu Lys Tyr Asp Ala
225	230	235
Asn Asn Ile Tyr Leu	Ala Ala Ile Tyr Gly	Glu Met Arg Asn Ala Ala
245	250	255
Arg Leu Gly Ser Arg	Gly Phe Ala Asn Lys	Ser Gln Asp Phe Ser Val
260	265	270
Val Ala Gln Tyr Gln	Phe Asp Phe Gly Leu	Arg Pro Ser Ile Ala Tyr

[illegible]

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<210> 7267
<211> 222
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (199)

<400> 7267																
Tyr	His	Arg	Gln	Ser	Pro	Ala	Val	Trp	Leu	Lys	Lys	Glu	Pro	Lys	Arg	
1				5					10					15		
Met	Leu	Phe	Thr	Leu	Lys	Lys	Tyr	Ile	Gly	Gly	Met	Met	Leu	Pro	Leu	
			20					25					30			
Pro	Leu	Leu	Leu	Leu	Leu	Ile	Ala	Leu	Gly	Leu	Ala	Met	Ile	Trp	Phe	
		35					40					45				
Ser	Arg	Phe	Gln	Lys	Ser	Gly	Lys	Ser	Leu	Val	Thr	Val	Gly	Trp	Leu	
	50					55					60					
Ala	Leu	Leu	Leu	Leu	Ser	Leu	Gln	Pro	Val	Ala	Asp	Gly	Leu	Leu	Arg	
65					70				75						80	
Pro	Ile	Glu	Asn	Thr	Tyr	Pro	Thr	Trp	Gln	Gly	Asn	Gln	Lys	Val	Gly	
			85						90					95		
Tyr	Ile	Val	Val	Leu	Gly	Gly	Gly	Tyr	Thr	Trp	Asp	Pro	Asn	Trp	Ala	
			100					105					110			
Pro	Ser	Ser	Asn	Leu	Ile	Asn	Asn	Ser	Leu	Pro	Arg	Leu	Asn	Glu	Gly	
		115					120					125				
Ile	Arg	Leu	Trp	Leu	Ala	Asn	Pro	Gly	Ser	Lys	Met	Ile	Phe	Thr	Gly	
	130					135					140					
Ala	Ala	Ala	Lys	Thr	Asn	Pro	Val	Ser	Thr	Ala	Glu	Ala	Gly	Ala	Arg	
145					150				155						160	
Val	Ala	Glu	Ser	Leu	Gly	Val	Pro	Arg	Ser	Ala	Ile	Ile	Thr	Leu	Asp	
			165						170					175		
Ser	Pro	Lys	Asp	Thr	Glu	Glu	Glu	Ala	Ala	Ala	Val	Lys	Gln	Ala	Ile	
			180					185					190			
Gly	Asp	Val	Pro	Phe	Ala	Xaa	Gly	Asp	Ile	Tyr	Phe	His	Thr	Cys	Arg	
	195						200					205				
Ala	Gln	Leu	Phe	Glu	Asn	Glu	Leu	Glu	Ile	Pro	Pro	Lys	Glu			
	210					215					220					

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<210> 7268
<211> 403
<212> PRT
<213> Enterobacter cloacae
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<400> 7268
Ser Gln Trp Asn Phe Val Met Phe Glu Asn Ile Thr Ala Ala Pro Ala
1 5 10 15
Asp Pro Ile Leu Gly Leu Ala Asp Leu Phe Arg Ala Asp Asp Arg Pro
20 25 30

Gly Lys Ile Asn Leu Gly Ile Gly Val Tyr Lys Asp Glu Thr Gly Lys
 35 40 45
 Thr Pro Val Leu Thr Ser Val Lys Lys Ala Glu Gln Tyr Leu Leu Glu
 50 55 60
 Asn Glu Thr Thr Lys Asn Tyr Leu Gly Ile Asp Gly Ile Pro Glu Phe
 65 70 75 80
 Gly Arg Cys Thr Gln Glu Leu Leu Phe Gly Lys Gly Ser Thr Ile Val
 85 90 95
 Ser Glu Lys Arg Ala Arg Thr Ala Gln Thr Pro Gly Gly Thr Gly Ala
 100 105 110
 Leu Arg Val Ala Ala Asp Phe Leu Ala Lys Asn Thr Ser Val Lys Arg
 115 120 125
 Val Trp Val Ser Asn Pro Ser Trp Pro Asn His Lys Ser Val Phe Asn
 130 135 140
 Ser Ala Gly Leu Glu Val Arg Glu Tyr Ala Tyr Tyr Asp Ala Ala Ser
 145 150 155 160
 His Ala Leu Asp Phe Asp Gly Leu Leu Ala Ser Leu Ser Glu Ala Gln
 165 170 175
 Ala Gly Asp Val Val Leu Phe His Gly Cys Cys His Asn Pro Thr Gly
 180 185 190
 Ile Asp Pro Thr Leu Glu Gln Trp Glu Gln Leu Ala Lys Leu Ser Val
 195 200 205
 Glu Lys Gly Trp Leu Pro Leu Phe Asp Phe Ala Tyr Gln Gly Phe Ala
 210 215 220
 Arg Gly Leu Glu Glu Asp Ala Glu Gly Leu Arg Ala Phe Ala Ala Val
 225 230 235 240
 His Gln Glu Leu Ile Val Ala Ser Ser Tyr Ser Lys Asn Phe Gly Leu
 245 250 255
 Tyr Asn Glu Arg Val Gly Ala Cys Thr Leu Val Ala Ala Asp Glu Ala
 260 265 270
 Thr Val Asp Arg Ala Phe Ser Gln Met Lys Ser Val Ile Arg Ala Asn
 275 280 285
 Tyr Ser Asn Pro Pro Ala His Gly Ala Ser Val Val Ala Thr Ile Leu
 290 295 300
 Ser Asn Asp Ala Leu Arg Ala Ile Trp Glu Gln Glu Leu Asn Asp Met
 305 310 315 320
 Arg Gln Arg Ile Gln Arg Met Arg Leu Leu Phe Val Asn Thr Leu Ala
 325 330 335
 Glu Lys Gly Ala Asp Arg Asp Phe Ser Phe Ile Ile Lys Gln Asn Gly
 340 345 350
 Met Phe Ser Phe Ser Gly Leu Thr Lys Glu Gln Val Leu Arg Leu Arg
 355 360 365
 Glu Glu Phe Gly Val Tyr Ala Val Ala Ser Gly Arg Val Asn Val Ala
 370 375 380
 Gly Met Thr Pro Asp Asn Met Ala Pro Leu Cys Glu Ala Ile Val Ala
 385 390 395 400
 Val Leu

<210> 7269

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7269

Gln Asn Ser Gly Phe Ala Val Ser Gly Thr Leu Pro Met Arg Asp Arg
 1 5 10 15
 Asn Phe Asp Asp Ile Ala Glu Lys Phe Ser Arg Asn Ile Tyr Gly Thr
 20 25 30
 Thr Lys Gly Gln Leu Arg Gln Thr Ile Leu Trp Gln Asp Leu Asp Lys
 35 40 45

Leu	Leu	Ala	Glu	Phe	Gly	Asp	Arg	Pro	Leu	Arg	Val	Leu	Asp	Ala	Gly
50						55					60				
Gly	Gly	Glu	Gly	Gln	Thr	Ala	Ile	Leu	Met	Ala	Gln	Arg	Gly	His	His
65					70						75				80
Val	Thr	Leu	Cys	Asp	Leu	Ser	Ala	Glu	Met	Val	Ala	Arg	Ala	Gly	Arg
				85					90					95	
Ala	Ala	Glu	Glu	Lys	Gly	Val	Ser	Asp	Asn	Met	His	Phe	Ile	His	Cys
				100				105						110	
Ala	Ala	Gln	Asp	Ile	Pro	Gln	His	Leu	Glu	Thr	Gln	Val	Asp	Leu	Ile
		115					120					125			
Leu	Phe	His	Ala	Val	Leu	Glu	Trp	Ile	Ala	Glu	Pro	Gln	Ala	Met	Leu
		130					135				140				
Lys	Thr	Leu	Trp	Ser	Met	Leu	Arg	Pro	Gly	Gly	Ala	Leu	Ser	Leu	Met
145					150					155					160
Phe	Tyr	Asn	Ala	Asn	Gly	Leu	Leu	Met	Arg	Asn	Val	Leu	Val	Gly	Asn
				165					170					175	
Phe	Gly	Tyr	Val	Gln	Gln	Gly	Met	Tyr	Lys	Lys	Lys	Arg	Arg	Thr	Leu
			180					185						190	
Ser	Pro	Asp	Phe	Pro	Arg	Glu	Pro	Gln	Gln	Val	Tyr	Gly	Trp	Leu	Glu
		195					200					205			
Glu	Ile	Gly	Trp	Glu	Ile	Thr	Gly	Lys	Thr	Gly	Val	Arg	Val	Phe	His
		210					215				220				
Asp	Tyr	Leu	Arg	Asp	Lys	Gln	Lys	Gln	Asp	Asp	Cys	Leu	Asp	Ala	Leu
225					230					235					240
Thr	Glu	Ile	Glu	Thr	Arg	Tyr	Cys	Arg	Gln	Glu	Pro	Tyr	Leu	Ser	Leu
				245					250					255	
Gly	Arg	Tyr	Ile	His	Val	Thr	Ala	Arg	Lys	Pro	Gln	Met	Gln	Gly	
			260					265					270		

<210> 7270

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7270

Ser	Met	Ser	Glu	Phe	Ser	Gln	Thr	Val	Pro	Glu	Leu	Val	Ala	Trp	Ala
1				5					10					15	
Arg	Lys	Asn	Asp	Phe	Ser	Ile	Ser	Leu	Pro	Val	Asp	Arg	Leu	Ser	Phe
		20						25					30		
Leu	Leu	Ala	Val	Ala	Thr	Leu	Asn	Gly	Glu	Arg	Leu	Asp	Gly	Glu	Met
		35					40					45			
Ser	Glu	Gly	Glu	Leu	Val	Asp	Ala	Phe	Arg	His	Val	Ser	Asp	Ala	Phe
		50				55					60				
Glu	Gln	Thr	Ser	Glu	Thr	Ile	Ser	Val	Arg	Ala	Asn	Asn	Ala	Ile	Asn
65					70					75				80	
Asp	Met	Val	Arg	Gln	Arg	Leu	Leu	Asn	Arg	Phe	Thr	Ser	Glu	Gln	Ala
				85					90					95	
Glu	Gly	Asn	Ala	Ile	Tyr	Arg	Leu	Thr	Pro	Leu	Gly	Ile	Gly	Ile	Thr
			100					105					110		
Asp	Tyr	Tyr	Ile	Arg	Gln	Arg	Glu	Phe	Ser	Thr	Leu	Arg	Leu	Ser	Met
		115					120					125			
Gln	Leu	Ser	Ile	Val	Ala	Gly	Glu	Leu	Lys	Arg	Ala	Ala	Asp	Ala	Ala
		130				135					140				
Asp	Glu	Asn	Gly	Asp	Glu	Phe	His	Trp	His	Arg	Asn	Val	Tyr	Ala	Pro
145					150					155					160
Leu	Lys	Tyr	Ser	Val	Ala	Glu	Ile	Phe	Asp	Ser	Ile	Asp	Leu	Thr	Gln
				165					170					175	
Arg	Leu	Met	Asp	Glu	Gln	Gln	Gln	Gln	Val	Lys	Asp	Asp	Ile	Ala	Gln
			180					185					190		
Leu	Leu	Asn	Lys	Asp	Trp	Arg	Ala	Ala	Ile	Ser	Ser	Cys	Glu	Leu	Leu
		195					200					205			

Leu Ser Glu Thr Ser Gly Thr Leu Arg Glu Leu Gln Asp Thr Leu Glu
 210 215 220
 Ala Ala Gly Asp Lys Leu Gln Ala Asn Leu Leu Arg Ile Gln Asp Ala
 225 230 235 240
 Thr Met Ala His Asp Asp Leu His Phe Ile Asp Arg Leu Val Phe Asp
 245 250 255
 Leu Gln Ser Lys Leu Asp Arg Ile Ile Ser Trp Gly Gln Gln Ser Ile
 260 265 270
 Asp Leu Trp Ile Gly Tyr Asp Arg His Val His Lys Phe Ile Arg Thr
 275 280 285
 Ala Ile Asp Met Asp Lys Asn Arg Val Phe Ala Gln Arg Leu Arg Gln
 290 295 300
 Ser Val Gln Thr Tyr Phe Asp Ala Pro Trp Ala Leu Thr His Ala Asn
 305 310 315 320
 Ala Asp Arg Leu Leu Asp Met Arg Asp Glu Glu Met Ala Leu Arg Asp
 325 330 335
 Glu Glu Val Thr Gly Glu Leu Pro Pro Asp Leu Glu Tyr Glu Glu Phe
 340 345 350
 Asn Glu Ile Arg Glu Gln Leu Ala Ala Met Ile Glu Glu Gln Leu Ala
 355 360 365
 Val Tyr Lys Thr Arg Gln Ala Pro Leu Asp Leu Gly Leu Val Val Arg
 370 375 380
 Asp Tyr Leu Ala Gln Tyr Pro Arg Ala Arg His Phe Asp Val Ala Arg
 385 390 395 400
 Ile Val Val Asp Gln Ala Val Arg Leu Gly Ile Ala Gln Ala Asp Phe
 405 410 415
 Thr Gly Leu Pro Pro Lys Trp Gln Pro Ile Asn Asp Tyr Gly Ala Lys
 420 425 430
 Val Gln Ala His Val Ile Asp Lys Tyr
 435 440

<210> 7271

<211> 1488

<212> PRT

<213> Enterobacter cloacae

<400> 7271

Arg Gly Gly Arg Val Met Ile Glu Arg Gly Lys Phe Arg Ser Leu Thr
 1 5 10 15
 Leu Ile Asn Trp Asn Gly Phe Phe Ala Arg Thr Phe Asp Leu Asp Glu
 20 25 30
 Leu Val Thr Thr Leu Ser Gly Gly Asn Gly Ala Gly Lys Ser Thr Thr
 35 40 45
 Met Ala Ala Phe Val Thr Ala Leu Ile Pro Asp Leu Thr Leu Leu His
 50 55 60
 Phe Arg Asn Thr Thr Glu Ala Gly Ala Thr Ser Gly Ser Arg Asp Lys
 65 70 75 80
 Gly Leu His Gly Lys Leu Lys Ala Gly Val Cys Tyr Ser Val Leu Asp
 85 90 95
 Val Ile Asn Ser Arg His Gln Arg Val Val Val Gly Val Arg Leu Gln
 100 105 110
 Gln Val Ala Gly Arg Asp Arg Lys Val Asp Ile Lys Pro Phe Ala Ile
 115 120 125
 Gln Gly Leu Pro Thr Ser Val Gln Pro Thr Ala Leu Leu Thr Glu Thr
 130 135 140
 Leu Asn Glu Arg Gln Ala Arg Val Leu Thr Leu Gln Glu Leu Lys Asp
 145 150 155 160
 Lys Leu Glu Ala Ile Glu Gly Val Gln Phe Lys Gln Phe Asn Ser Ile
 165 170 175
 Thr Asp Tyr His Ser Leu Met Phe Asp Leu Gly Val Val Ala Arg Arg
 180 185 190

Leu	Arg	Ser	Ala	Ser	Asp	Arg	Ser	Lys	Tyr	Tyr	Arg	Leu	Ile	Glu	Ala
		195					200					205			
Ser	Leu	Tyr	Gly	Gly	Ile	Ser	Ser	Ala	Ile	Thr	Arg	Ser	Leu	Arg	Asp
		210				215					220				
Tyr	Leu	Leu	Pro	Glu	Asn	Ser	Gly	Val	Arg	Lys	Ala	Phe	Gln	Asp	Met
225					230					235					240
Glu	Ala	Ala	Leu	Arg	Glu	Asn	Arg	Met	Thr	Leu	Glu	Ala	Ile	Arg	Val
				245					250					255	
Thr	Gln	Ser	Asp	Arg	Asp	Leu	Phe	Lys	His	Leu	Ile	Ser	Glu	Ala	Thr
			260					265					270		
Asn	Tyr	Val	Ala	Ala	Asp	Tyr	Met	Arg	His	Ala	Asn	Glu	Arg	Arg	Ile
		275					280					285			
His	Leu	Asp	Gln	Ala	Leu	Glu	Tyr	Arg	Arg	Glu	Leu	Phe	Thr	Ser	Arg
		290				295					300				
Lys	Gln	Leu	Val	Ala	Glu	Gln	Tyr	Lys	His	Val	Glu	Met	Ala	Arg	Glu
305					310					315					320
Leu	Gly	Glu	His	Asn	Gly	Ala	Glu	Gly	Asp	Leu	Glu	Ala	Asp	Tyr	Gln
				325					330					335	
Ala	Ala	Ser	Asp	His	Leu	Asn	Leu	Val	Gln	Thr	Ala	Leu	Arg	Gln	Gln
			340					345					350		
Glu	Lys	Ile	Glu	Arg	Tyr	Glu	Ala	Asp	Leu	Asp	Glu	Leu	Gln	Ile	Arg
		355					360					365			
Leu	Glu	Glu	Gln	Asn	Glu	Val	Val	Ala	Glu	Ala	Ala	Glu	Leu	Gln	Glu
		370				375					380				
Glu	Asn	Glu	Ala	Arg	Ala	Glu	Ala	Ala	Glu	Leu	Glu	Val	Asp	Glu	Leu
385					390					395					400
Lys	Ser	Gln	Leu	Ala	Asp	Tyr	Gln	Gln	Ala	Leu	Asp	Val	Gln	Gln	Thr
				405					410					415	
Arg	Ala	Ile	Gln	Tyr	Asn	Gln	Ala	Leu	Gln	Ala	Leu	Gln	Arg	Ala	Lys
			420					425					430		
Glu	Leu	Cys	His	Leu	Pro	Asp	Leu	Thr	Pro	Glu	Ser	Ala	Asp	Glu	Trp
		435					440					445			
Leu	Asp	Thr	Phe	Gln	Ala	Lys	Glu	Gln	Glu	Ala	Thr	Glu	Lys	Leu	Leu
		450				455					460				
Ser	Leu	Asp	Gln	Lys	Met	Ser	Val	Ala	Gln	Thr	Ala	His	Ser	Gln	Phe
465					470					475					480
Glu	Gln	Ala	Tyr	Gln	Leu	Val	Val	Ala	Ile	Asn	Gly	Pro	Leu	Ala	Arg
				485					490					495	
Asn	Glu	Ala	Trp	Asp	Val	Ala	Arg	Glu	Leu	Leu	Arg	Asp	Gly	Val	Asn
			500					505					510		
Gln	Arg	His	Leu	Ala	Glu	Gln	Val	Gln	Pro	Leu	Arg	Met	Arg	Leu	Asn
		515					520					525			
Glu	Leu	Glu	Gln	Arg	Leu	Arg	Glu	Gln	Gln	Glu	Ala	Glu	Arg	Leu	Leu
		530				535					540				
Ala	Glu	Phe	Cys	Lys	Arg	Gln	Gly	Lys	Asn	Tyr	Asp	Phe	Asp	Glu	Leu
545					550					555					560
Glu	Ala	Leu	His	Gln	Glu	Leu	Glu	Ala	Arg	Ile	Ala	Ala	Leu	Ser	Asp
				565					570					575	
Thr	Val	Ser	Asn	Ala	Ser	Glu	Gln	Arg	Met	Thr	Leu	Arg	Gln	Glu	Leu
			580					585					590		
Glu	Gln	Leu	Gln	Ser	Arg	Ser	Lys	Thr	Leu	Leu	Gln	Arg	Ala	Pro	Ile
		595					600					605			
Trp	Leu	Ala	Ala	Gln	Ser	Ser	Leu	Asn	Gln	Leu	Ser	Glu	Gln	Cys	Gly
		610				615					620				
Gln	Glu	Phe	Ala	Ser	Ser	Gln	Asp	Val	Thr	Glu	Tyr	Met	Gln	Gln	Leu
625					630					635					640
Leu	Glu	Arg	Glu	Arg	Glu	Ala	Ile	Val	Glu	Arg	Asp	Glu	Val	Gly	Ala
				645					650					655	
Arg	Lys	Arg	Asp	Val	Asp	Glu	Glu	Ile	Glu	Arg	Leu	Ser	Gln	Pro	Gly
			660					665					670		
Gly	Ser	Glu	Asp	Pro	Arg	Leu	Asn	Ala	Leu	Ala	Glu	Arg	Phe	Gly	Gly

675	680	685
Val Leu Leu Ser Glu Ile Tyr Asp Asp Val Gly Leu Asp Asp Ala Pro		
690	695	700
Tyr Phe Ser Ala Leu Tyr Gly Pro Ser Arg Asn Ala Ile Val Val Pro		
705	710	715
Asp Leu Ser Leu Ile Ser Asp Gln Leu Ala Gly Leu Glu Asp Cys Pro		
725	730	735
Glu Asp Leu Tyr Leu Ile Glu Gly Asp Pro Gln Ser Phe Asp Asp Ser		
740	745	750
Val Phe Ser Val Asp Glu Leu Glu Lys Ala Val Val Val Lys Ile Ala		
755	760	765
Asp Arg Gln Trp Arg Tyr Ser Arg Phe Pro Glu Leu Pro Leu Phe Gly		
770	775	780
Arg Ala Ala Arg Glu Ser Arg Ile Glu Ser Leu His Ala Glu Arg Glu		
785	790	795
Thr Leu Ser Glu Arg Phe Ala Thr Leu Ser Phe Asp Val Gln Lys Thr		
805	810	815
Gln Arg Leu His Gln Ala Phe Ser Arg Phe Ile Gly Ser His Leu Gly		
820	825	830
Val Ala Phe Glu Pro Asp Pro Glu Ala Glu Ile Arg Lys Leu Asn Thr		
835	840	845
Arg Arg Gly Glu Leu Glu Arg Ala Leu Ala Ser His Glu Asn Asp Asn		
850	855	860
Gln Gln Ser Arg Val Gln Phe Glu Gln Ala Lys Glu Gly Val Ala Ala		
865	870	875
Leu Asn Arg Ile Leu Pro Arg Leu Asn Leu Leu Ala Asp Asp Thr Leu		
885	890	895
Ala Asp Arg Val Asp Glu Ile Gln Glu Arg Leu Asp Glu Ala Gln Glu		
900	905	910
Ala Ala Arg Phe Val Gln Gln His Gly Asn Gln Leu Ala Lys Leu Glu		
915	920	925
Pro Met Val Ser Val Leu Gln Ser Asp Pro Glu Gln Phe Glu Gln Leu		
930	935	940
Lys Glu Asp Tyr Ala Trp Ser Gln Gln Val Gln Arg Glu Ala Arg Gln		
945	950	955
Gln Ala Phe Ala Leu Thr Glu Val Val Gln Arg Arg Ala His Phe Gly		
965	970	975
Tyr Ser Asp Ser Ala Glu Met Leu Ser Gly Asn Ser Asp Leu Asn Glu		
980	985	990
Lys Leu Arg Gln Arg Leu Glu Gln Ala Glu Ala Glu Arg Thr Arg Ala		
995	1000	1005
Arg Glu Ala Met Arg Thr His Ala Ala Gln Leu Ser Gln Tyr Ser Gln		
1010	1015	1020
Val Met Ala Ser Leu Lys Ser Ser Phe Asp Thr Lys Lys Glu Leu Leu		
1025	1030	1035
Asn Asp Leu His Lys Glu Leu Gln Asp Ile Gly Val Arg Ala Asp Ser		
1045	1050	1055
Gly Ala Glu Glu Arg Ala Arg Ile Arg Arg Asp Glu Leu His Ala Gln		
1060	1065	1070
Leu Ser Asn Asn Arg Ala Arg Arg Asn Gln Leu Glu Lys Ala Leu Thr		
1075	1080	1085
Phe Cys Glu Ala Glu Met Asp Asn Leu Thr Arg Arg Leu Arg Lys Leu		
1090	1095	1100
Glu Arg Asp Tyr His Glu Met Arg Glu Gln Val Val Thr Ala Lys Ala		
1105	1110	1115
Gly Trp Cys Ala Val Met Arg Met Val Lys Asp Asn Asn Val Glu Arg		
1125	1130	1135
Arg Leu His Arg Arg Glu Leu Ala Tyr Leu Ser Ala Asp Glu Leu Arg		
1140	1145	1150
Ser Met Ser Asp Lys Ala Leu Gly Ala Leu Arg Leu Ala Val Ala Asp		
1155	1160	1165

Asn Glu His Leu Arg Asp Val Leu Arg Met Ser Glu Asp Pro Lys Arg
 1170 1175 1180
 Pro Glu Arg Lys Ile Gln Phe Phe Val Ala Val Tyr Gln His Leu Arg
 1185 1190 1195 1200
 Glu Arg Ile Arg Gln Asp Ile Ile Arg Thr Asp Asp Pro Val Glu Ala
 1205 1210 1215
 Ile Glu Gln Met Glu Ile Glu Leu Gly Arg Leu Thr Glu Glu Leu Thr
 1220 1225 1230
 Ser Arg Glu Gln Lys Leu Ala Ile Ser Ser Arg Ser Val Ala Asn Ile
 1235 1240 1245
 Ile Arg Lys Thr Ile Gln Arg Glu Gln Asn Arg Ile Arg Gln Leu Asn
 1250 1255 1260
 Gln Gly Leu Gln Ser Val Ser Phe Gly Gln Val Asn Ser Val Arg Leu
 1265 1270 1275 1280
 Asn Val Asn Val Arg Glu Ala His Ser Thr Leu Leu Asp Val Leu Ser
 1285 1290 1295
 Glu Gln His Glu Gln His Gln Asp Leu Phe Asn Ser Asn Arg Leu Thr
 1300 1305 1310
 Phe Ser Glu Ala Leu Ala Lys Leu Tyr Gln Arg Leu Asn Pro Gln Ile
 1315 1320 1325
 Asp Met Gly Gln Arg Thr Pro Gln Thr Ile Gly Glu Glu Leu Leu Asp
 1330 1335 1340
 Tyr Arg Asn Tyr Leu Glu Met Glu Val Glu Val Asn Arg Gly Ser Asp
 1345 1350 1355 1360
 Gly Trp Leu Arg Ala Glu Ser Gly Ala Leu Ser Thr Gly Glu Ala Ile
 1365 1370 1375
 Gly Thr Gly Met Ser Ile Leu Val Met Val Val Gln Ser Trp Glu Asp
 1380 1385 1390
 Glu Ala Arg Arg Leu Arg Gly Lys Asp Ile Ser Pro Cys Arg Leu Leu
 1395 1400 1405
 Phe Leu Asp Glu Ala Ala Arg Leu Asp Ala Arg Ser Ile Ala Thr Leu
 1410 1415 1420
 Phe Glu Leu Cys Glu Arg Leu Asp Met Gln Leu Ile Ile Ala Ala Pro
 1425 1430 1435 1440
 Glu Asn Ile Ser Pro Glu Lys Gly Thr Thr Tyr Lys Leu Val Arg Lys
 1445 1450 1455
 Val Phe Gln Asn Ser Glu His Val His Val Val Gly Leu Arg Gly Phe
 1460 1465 1470
 Ala Pro Gln Pro Pro Glu Ser Leu Pro Gly Thr Ala Asp Ala Ser
 1475 1480 1485

<210> 7272

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7272

Gln Phe Leu Leu Pro Val Asp Leu Ile Ile Met Asp Lys Phe Asp Ala
 1 5 10 15
 Asn Arg Arg Lys Leu Leu Ala Leu Gly Gly Val Ala Leu Gly Ala Ala
 20 25 30
 Ala Ile Leu Pro Thr Pro Ala Phe Ala Thr Leu Ser Thr Pro Arg Pro
 35 40 45
 Arg Ile Leu Thr Leu Asn Asn Leu His Thr Gly Glu Thr Leu Lys Ala
 50 55 60
 Glu Phe Phe Asp Gly Arg Gly Tyr Ile Gln Asp Glu Leu Ala Arg Leu
 65 70 75 80
 Asn His Phe Phe Arg Asp Phe Arg Ala Asn Lys Ile Lys Ala Ile Asp
 85 90 95
 Pro Gly Leu Phe Asp Gln Leu Tyr Arg Leu Gln Gly Leu Leu Gly Thr
 100 105 110

Lys Arg Pro Val Gln Leu Ile Ser Gly Tyr Arg Ser Leu Asp Thr Asn
 115 120 125
 Asn Glu Leu Arg Ala His Ser Arg Gly Val Ala Lys Lys Ser Tyr His
 130 135 140
 Thr Lys Gly Gln Ala Met Asp Phe His Ile Glu Gly Val Ser Leu Ala
 145 150 155 160
 Asn Ile Arg Lys Ala Ala Leu Ser Met Arg Ala Gly Gly Val Gly Tyr
 165 170 175
 Tyr Pro Arg Ser Asn Phe Val His Ile Asp Thr Gly Pro Val Arg His
 180 185 190
 Trp

<210> 7273

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 7273

Thr Arg Arg Cys Ala Trp Ala Ser His Lys Pro Ile Ser Pro Asp Cys
 1 5 10 15
 Arg Arg Ser Gly Ser Arg Leu Thr Ile Thr Glu Pro Arg Tyr Arg Arg
 20 25 30
 Met Ser Leu Thr Asn Ile Glu Gln Val Met Pro Val Lys Leu Ala Gln
 35 40 45
 Ala Leu Ala Asn Pro Leu Phe Pro Ala Leu Asp Ser Gln Leu Arg Ala
 50 55 60
 Gly Arg His Ile Gly Leu Asp Glu Leu Asp Asn His Ala Phe Leu Met
 65 70 75 80
 Asp Phe Gln Glu Tyr Leu Glu Glu Phe Tyr Ala Arg Tyr Asn Val Glu
 85 90 95
 Leu Ile Arg Ala Pro Glu Gly Phe Phe Tyr Leu Arg Pro Arg Ser Thr
 100 105 110
 Thr Leu Ile Pro Arg Ser Val Leu Ser Glu Leu Asp Met Met Val Gly
 115 120 125
 Lys Ile Leu Cys Tyr Leu Tyr Leu Ser Pro Glu Arg Leu Ala Asn Glu
 130 135 140
 Gly Ile Phe Thr Gln Gln Glu Leu Tyr Asp Glu Leu Leu Ser Leu Ala
 145 150 155 160
 Asp Glu Ser Lys Leu Leu Lys Leu Val Asn Asn Arg Ser Thr Gly Ser
 165 170 175
 Asp Leu Asp Arg Gln Lys Leu Gln Glu Lys Val Arg Ser Ser Leu Asn
 180 185 190
 Arg Leu Arg Arg Leu Gly Met Val Trp Phe Met Gly His Asp Ser Ser
 195 200 205
 Lys Phe Arg Ile Thr Glu Ser Val Phe Arg Phe Gly Ala Asp Val Arg
 210 215 220
 Ala Gly Asp Asp Ala Arg Glu Ala Gln Leu Arg Met Ile Arg Asp Gly
 225 230 235 240
 Glu Ala Met Pro Val Glu Asn His Leu Gln Leu Asn Asp Glu His Glu
 245 250 255
 Glu Asn Gln Pro Asp Ser Gly Glu Glu Glu
 260 265

<210> 7274

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 7274

Ser Ala Lys Pro Pro Thr Thr Trp Arg Arg Thr Ile Cys Ala Thr Pro

1		5		10		15									
Thr	Ser	Ala	Val	Phe	Ile	Ser	Ile	Arg	Arg	Trp	Ser	Ile	Ala	Ala	Ser
		20						25					30		
Cys	Leu	Pro	Pro	Ala	Asn	Ser	Trp	Trp	Pro	Ser	Ser	Ile	Ser	Met	Ser
		35					40					45			
Lys	Trp	Arg	Ala	Asn	Trp	Ala	Ser	Thr	Met	Val	Leu	Lys	Gly	Ile	Trp
	50					55					60				
Lys	Pro	Ile	Thr	Arg	Arg	Pro	Ala	Ile	Ile						
65					70				75						

<210> 7275

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7275

Trp	Trp	Cys	Arg	Ala	Gly	Lys	Met	Lys	Arg	Ala	Val	Cys	Ala	Ala	Lys
1				5					10				15		
Thr	Ser	Leu	His	Val	Val	Cys	Cys	Ser	Ser	Met	Lys	Pro	Arg	Val	Ser
		20						25				30			
Thr	Pro	Ala	Pro	Ser	Pro	Arg	Cys	Leu	Ser	Phe	Ala	Ser	Asp	Ser	Ile
		35					40					45			
Cys	Ser	Ser	Ser	Ser	Arg	Arg	Arg	Lys	Thr	Ser	Val	Arg	Lys	Lys	Gly
	50					55					60				
Gln	Pro	Ile	Ser	Trp	Cys	Val	Arg	Cys	Ser	Arg	Thr	Val	Asn	Thr	Cys
65					70				75					80	
Thr	Ser	Trp	Ala	Cys	Val	Val	Ser	Pro	Arg	Ser	His	Arg	Ser	His	Tyr
			85					90					95		
Arg	Ala	Arg	Leu	Thr	Pro	Leu	Asn	Leu	Gly	Cys	Asp	Lys			
			100					105					110		

<210> 7276

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 7276

Gly	Lys	Ala	Ala	Cys	Met	Pro	Phe	Tyr	Thr	Glu	Gly	Lys	Leu	Gln
1			5					10					15	
Asn	Thr	Gly	His	Val	Val	Lys	Asn	Arg	Gly	Gln	Gly	Met	Leu	Lys
		20					25					30		
Lys	Asn	Arg	Gly	Arg	Gln	Leu	Ser	Ala	Leu	Ser	Leu	Cys	Leu	Thr
		35					40				45			
Met	Phe	Ala	Pro	Leu	Phe	Thr	Ala	Gln	Ala	Asp	Glu	Pro	Glu	Ile
	50					55				60				
Pro	Thr	Asp	Ser	Ser	Ala	Thr	Met	Gly	Ala	Gln	Pro	Thr	Ser	Leu
65					70				75					80
Gln	Pro	Leu	Asp	Gln	Ser	Pro	Ala	Thr	Ala	Ile	Met	Ala	Gly	Ile
			85					90					95	
Pro	Leu	Pro	Glu	Gly	Ile	Asp	Thr	Gly	Ser	Leu	Arg	Gln	Gln	Leu
		100						105					110	
Thr	Gly	Leu	Pro	Ser	Gly	Tyr	Thr	Pro	Ala	Tyr	Ile	Asn	Gln	Leu
		115					120					125		
Leu	Leu	Tyr	Ala	Ala	Arg	Asp	Met	Lys	Pro	Met	Trp	Glu	Asn	Arg
	130					135					140			
Ala	Val	Arg	Ala	Phe	Gln	Gln	Leu	Ala	Glu	Val	Ala	Ile	Ala	Gly
145					150				155					160
Phe	Gln	Pro	Gln	Phe	Thr	Thr	Trp	Val	Glu	Leu	Leu	Thr	Asp	Pro
			165					170					175	
Val	Thr	Gly	Gln	Ala	Arg	Asp	Val	Val	Leu	Ser	Asp	Ala	Met	Met
			180					185					190	

Tyr Leu Gln Phe Val Ala Gly Ile Ser Val Asn Gly Asn Arg Trp Leu
 195 200 205
 Tyr Ser Ser Lys Pro Tyr Lys Leu Ala Thr Pro Ala Leu Ser Val Ile
 210 215 220
 Asn Gln Trp Gln Leu Ser Leu Asp Asn Gly Glu Leu Pro Arg Phe Ile
 225 230 235 240
 Ala Ser Leu Ala Pro Ala His Pro Gln Tyr Ala Thr Met His Gln Ser
 245 250 255
 Leu Leu Glu Leu Val Ala Asp Ser Arg Pro Trp Pro Gln Leu Arg Gly
 260 265 270
 Thr Thr Thr Leu Arg Pro Gly Gln Trp Ser Ser Asp Val Pro Ala Ile
 275 280 285
 Arg Glu Ile Met Lys Arg Ser Gly Ile Leu Asp Ser Gly Pro Lys Ile
 290 295 300
 Ala Leu Pro Gly Asp Glu Thr Gln Asn Ala Val Val Ser Pro Ser Ala
 305 310 315 320
 Pro Val Lys Glu Lys Thr Ala Val Ala Leu Ser Asn Lys Pro Ala Ala
 325 330 335
 Tyr Asp Arg Glu Leu Val Ala Ala Val Lys Gln Phe Gln Ala Ala Gln
 340 345 350
 Gly Leu Gly Ala Asp Gly Val Ile Gly Pro Ser Thr Arg Asp Trp Leu
 355 360 365
 Asn Val Ser Pro Ala Gln Arg Ala Gly Val Leu Ala Leu Asn Ile Gln
 370 375 380
 Arg Leu Arg Leu Leu Pro Gly Thr Leu Ser Thr Gly Ile Met Val Asn
 385 390 395 400
 Ile Pro Ala Tyr Ser Leu Val Tyr Tyr Gln Asp Gly Ser Glu Val Leu
 405 410 415
 Ala Ser Arg Val Ile Val Gly Arg Pro Asp Arg Lys Thr Pro Met Met
 420 425 430
 Ser Ser Ala Leu Asn Asn Val Val Val Asn Pro Pro Trp Asn Val Pro
 435 440 445
 Pro Thr Leu Ala Arg Lys Asp Ile Leu Pro Lys Val Trp Asn Asp Pro
 450 455 460
 Gly Tyr Leu Glu Arg His Asn Tyr Thr Val Met Arg Gly Trp Asn Ser
 465 470 475 480
 Lys Glu Ala Ile Asp Pro Trp Met Val Asp Trp Ser Thr Ile Thr Pro
 485 490 495
 Ser Asn Leu Pro Phe Arg Phe Gln Gln Ala Pro Gly Ala His Asn Ser
 500 505 510
 Leu Gly Arg Tyr Lys Phe Asn Met Pro Ser Ser Asp Ala Ile Tyr Leu
 515 520 525
 His Asp Thr Pro Asn His Asn Leu Phe Gln Lys Asp Ala Arg Ala Leu
 530 535 540
 Ser Ser Gly Cys Val Arg Val Asn Lys Ala Ser Glu Leu Ala Asn Met
 545 550 555 560
 Leu Leu Gln Asp Ala Gly Trp Asn Asp Thr Arg Ile Ser Asp Ala Leu
 565 570 575
 Lys Gln Gly Asp Thr Arg Tyr Val Asn Ile Arg His Asn Ile Pro Val
 580 585 590
 Asn Leu Tyr Tyr Leu Thr Ala Phe Val Gly Ala Asp Gly Arg Thr Gln
 595 600 605
 Tyr Arg Thr Asp Ile Tyr Asn Tyr Asp Leu Thr Ala Arg Ser Gly Ala
 610 615 620
 Gln Ile Leu Pro Lys Ala Glu Gln Leu Ile Arg
 625 630 635

<210> 7277

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 7277

Tyr Arg Ala Gly Ser Ala Leu Val Ile Thr Lys His Arg Ser Ser Met
 1 5 10 15
 Asn Tyr Arg Ile Ile Pro Val Thr Ala Phe Ser Gln Asn Cys Ser Leu
 20 25 30
 Ile Trp Cys Glu Gln Thr Lys Leu Ala Ala Leu Val Asp Pro Gly Gly
 35 40 45
 Asp Ala Glu Thr Ile Lys Gln Glu Val Ala Ala Ser Gly Val Thr Leu
 50 55 60
 Met Gln Ile Leu Leu Thr His Gly His Leu Asp His Val Gly Ala Ala
 65 70 75 80
 Ala Glu Leu Ala Glu His Tyr Gly Val Pro Ile Ile Gly Pro Glu Lys
 85 90 95
 Glu Asp Glu Phe Trp Leu Gln Gly Leu Pro Ala Gln Ser Arg Met Phe
 100 105 110
 Gly Leu Glu Asp Cys Gln Pro Leu Thr Pro Asp Arg Trp Leu Asn Glu
 115 120 125
 Asp Asp Arg Val Asn Val Gly Asn Val Thr Leu Gln Val Leu His Cys
 130 135 140
 Pro Gly His Thr Pro Gly His Ile Val Phe Phe Asp Asp Val Ser Arg
 145 150 155 160
 Leu Leu Ile Ser Gly Asp Val Ile Phe Lys Gly Gly Val Gly Arg Ser
 165 170 175
 Asp Phe Pro Arg Gly Asp His Gly Gln Leu Ile Gln Ser Ile Lys Gln
 180 185 190
 Lys Leu Leu Pro Leu Gly Asp Asp Val Thr Phe Ile Pro Gly His Gly
 195 200 205
 Pro Met Ser Thr Leu Gly Asp Glu Arg Leu His Asn Pro Phe Leu Gln
 210 215 220
 Asp Glu Met Pro Val Trp
 225 230

<210> 7278

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7278

Gly Cys Arg Leu Gln His Arg Asp Asn Gly Phe Ala Gln Arg Arg His
 1 5 10 15
 Val Val Arg Arg His Thr Cys Asn Val His Ala Ala Arg Cys Asn Gly
 20 25 30
 Ile His Ala Lys Leu Phe Thr Gln Ala Gln His Leu Leu Phe Gly Gln
 35 40 45
 Ala Ala Glu Gly Glu His Ala Val Leu Leu Asp Asp Glu Ala Glu Val
 50 55 60
 Thr Val Ser Ala Phe Leu Ser Gln Arg Val His Lys Gln Gln Thr His
 65 70 75 80
 Ala Leu Asn Ala Leu Thr His Ile Val Gln Leu Leu Leu Pro Asp Gly
 85 90 95
 Ala Gln Arg Ile Val Ala Gln Asp Arg Arg Asp His Arg Arg Thr Val
 100 105 110
 Cys Arg Trp Val Gly Val Val Ser Ala Asp His Gly Leu His Leu Ala
 115 120 125
 Glu Cys Ala Ile Asp Gly Cys Phe Val Ser Ser His Gln Arg Thr Gly
 130 135 140
 Ala Asp Thr Leu Val Ile Gln Thr Lys Val Leu Gly Ile Gly Ala Cys
 145 150 155 160
 Asp Tyr Gln Leu Leu Met His Gly Gly Glu Cys Ala Gln Thr Phe Cys
 165 170 175

Ile	Phe	Phe	Gln	Thr	Thr	Gly	Lys	Ala	Leu	Val	Ser	Glu	Val	Lys	Gln
			180					185					190		
Arg	Gln	Pro	Ala	Phe	Phe	Asn	Gly	Gln	Leu	Ser	Gln	Leu	Phe	Pro	Leu
		195					200					205			
Leu	Lys	Arg	Arg	Ile	Asp	Thr	Gly	Trp	Val	Met	Ala	Ala	Ala	Val	Glu
	210					215					220				
Gln	His	His	Ile	Ala	Arg	Leu	Gly	Phe	Ala	Gln	Ala	Gly	Gln	Gln	Ala
225					230					235					240
Val	Glu	Ile	Gln	Arg	Val	Ala	Gly	Cys	Val	Val	Val	Gly	Val	Phe	Thr
				245				250						255	
His	Phe	Gln	Thr	Arg	Arg	Ile	Lys	His	Ala	Leu	Met	Val	Arg	Pro	Ala
			260					265					270		
Trp	Ile	Ala	Tyr	Pro	His	Thr	Leu	His	Arg	Ser	Val	Phe	Arg	Gln	Glu
		275					280					285			
Ile	Cys	Arg	His	Ala	Gln	Cys	Ala	Gly	Thr	Ala	Trp	Gly	Leu	Arg	Arg
	290					295					300				
Ala	Gly	Ala	Phe	Phe	Ala	His	Asn	Gly	Ala	Ala	Phe	Ala	Glu	Gln	Gln
305					310					315					320
Leu	Leu	Gly	Ala	Ala	Thr	Lys	Phe	Arg	Asp	Thr	Ile	Asn	Thr	Glu	Val
				325					330					335	
Val	Phe	Gly	Gly	Phe	Val	Phe	Gln	Gln	Ile	Leu	Leu	Ser	Phe	Phe	Asp
			340					345					350		
Ala	Gly	Gln	Tyr	Arg	Ser	Phe	Ala	Gly	Phe	Ile	Phe	Ile	Tyr	Thr	Asn
		355					360					365			
Thr	Gln	Val	Asp	Phe	Ser	Arg	Ala	Val	Val	Gly	Ala	Lys	Gln	Ile	Gly
	370					375					380				
Gln	Ala	Gln	Asn	Trp	Val	Gly	Arg	Ser	Gly	Ser	Asn	Val	Leu	Lys	His
385					390					395					400
Asp	Glu	Val	Pro	Leu											
				405											

<210> 7279

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 7279.

Asp	Met	Lys	Pro	Gly	Tyr	His	Glu	Ile	Tyr	Ser	Arg	Tyr	Arg	Asp	Asn
1			5						10					15	
Ile	Met	Arg	Gly	Val	Leu	Lys	Pro	Gly	Asp	Arg	Val	Pro	Ala	Ile	Arg
			20					25					30		
Leu	Leu	Ala	Glu	Glu	Leu	Lys	Val	Ala	Arg	Lys	Thr	Val	Glu	Thr	Ala
		35					40					45			
Tyr	Ala	Ile	Leu	Thr	Gly	Glu	Gly	Tyr	Leu	Val	Ser	Gln	Gly	Ala	Arg
	50					55					60				
Gly	Thr	Arg	Val	Asn	Pro	Asp	Leu	Leu	Leu	Pro	Ala	Gln	Asn	Ala	Pro
65					70					75					80
Thr	Glu	Gln	Ala	Thr	Gly	Thr	Leu	Pro	Ala	Ser	Leu	Ile	Ser	Gln	Arg
				85					90					95	
Glu	Arg	Ala	Gly	Phe	Leu	Arg	Pro	Gly	Ile	Pro	Ala	Leu	Asp	Ser	Phe
			100					105					110		
Pro	Tyr	Lys	Lys	Trp	Leu	Leu	Leu	Ala	Gly	Gln	Ala	Thr	Arg	Ala	Met
		115					120					125			
Arg	Gln	Asp	Glu	Met	Leu	Asn	Pro	Pro	Val	Leu	Gly	Trp	Tyr	Pro	Leu
	130					135					140				
Arg	Glu	Ala	Ile	Ala	Arg	Tyr	Leu	Asn	Ile	Ser	Arg	Gly	Leu	Ser	Cys
145					150					155					160
Thr	Ala	Glu	Gln	Val	Met	Ile	Thr	Ser	Gly	Tyr	Ser	Gly	Ser	Leu	Arg
				165					170					175	
Leu	Ile	Leu	Asp	Thr	Leu	Ala	Ser	Arg	Ser	Asp	Lys	Val	Val	Phe	Glu
			180					185					190		

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Asp Pro Gly Tyr Phe Met Gly Gln Gln Leu Leu Lys Arg Ile Val Pro
      195      200      205
Arg Leu His Thr Val Pro Val Asp Arg Ala Gly Met Asp Thr Asp Tyr
      210      215      220
Leu Leu Arg Asn His His Asp Ala Arg Phe Ala Ile Val Thr Pro Ser
225      230      235      240
His Gln Ser Pro Leu Ala Val Thr Leu Ser Leu Pro Arg Lys Gln Gln
      245      250      255
Leu Leu Asp Trp Ala Ser Gln Asn Glu Ala Trp Ile Ile Glu Asp Asp
      260      265      270
Tyr Asp Gly Glu Phe His Tyr Thr Arg Lys Val Leu Pro Ser Leu Lys
      275      280      285
Ser Leu Asp Gln His Asp Arg Val Ile Phe Met Gly Thr Phe Ser Lys
      290      295      300
Thr Ile Met Pro Ser Leu Arg Met Gly Tyr Val Val Met Pro Ala Ser
305      310      315      320
Thr Val Gly Val Phe Thr Asp Ser Ala Asp Ile Leu Thr Ser Gly Gln
      325      330      335
Pro Val Leu Thr Gln Lys Ile Leu Thr Ala Phe Leu Asn Glu Gly His
      340      345      350
Phe Phe Arg His Leu Lys Lys Met Arg Ala Leu Tyr Gln Thr Arg Arg
      355      360      365
Asp Trp Met Ile Ala Ala Leu Arg Glu Val Tyr Gly Asp Leu Phe Phe
      370      375      380
Thr Glu Gln Asn Asp Gly Gly Met His Ile Val Ala Phe Leu Ala Lys
385      390      395      400
Gly Ser Ala Asp Arg Glu Ile Ala Arg Cys Trp Gln Glu Gln Gln Leu
      405      410      415
Gln Val Asn Ala Leu Ser Gly Trp Tyr His Gly Ser Gly Lys Arg Tyr
      420      425      430
Gly Leu Val Met Gly Tyr Asn Asn Val Arg Ser Tyr Gln Glu Ala Leu
      435      440      445
Asp Leu Leu Glu Arg Pro Lys Arg Gln Thr Leu Glu Leu Leu Ser
      450      455      460

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<210> 7280

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7280

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Cys Ser Pro Arg Tyr Ala Ser Gly Val Ile Ile Met Glu Asn Gly Gln
1      5      10      15
Tyr Asn Thr Asp Ser Lys Thr Ala Phe Val Tyr His Thr Asp Pro Leu
      20      25      30
Lys Arg Tyr Leu His Gly Gly Leu Phe Ile His Leu Tyr Trp Phe Asn
      35      40      45
Ala Leu Tyr Gly Glu Asn Lys Gly Tyr Ser Met Thr Arg Tyr Gln His
      50      55      60
Leu Ala Asn Leu Leu Ala Glu Arg Ile Glu Gln Gly Leu Tyr Arg Ser
65      70      75      80
Gly Glu Arg Leu Pro Ser Val Arg Thr Leu Ser Gln Glu His Gly Val
      85      90      95
Ser Ile Ser Thr Ile Gln Gln Ala Tyr Gln Ile Leu Glu Asn Leu Gln
      100      105      110
Leu Ile Thr Pro Gln Pro Arg Ser Gly Tyr Phe Val Ser Lys Arg Lys
      115      120      125
Ala Gln Pro Pro Val Pro Ala Met Thr Arg Pro Val Gln Arg Pro Val
      130      135      140
Asp Val Thr Gln Trp Asp Glu Val Met Met Leu Leu Asp Ala Arg Ala
145      150      155      160

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Asp Lys Glu Met Ile Ser Phe Gly Gly Gly Ser Pro Asp Ile Asn Gln
 165 170 175
 Pro Ser Leu Lys Pro Leu Trp Arg Glu Met Ser Arg Ile Ala Gln His
 180 185 190
 Asn Pro Gly Glu Met Leu Ser Tyr Asp Val Leu Asp Gly Arg Leu Glu
 195 200 205
 Leu Arg Glu Gln Ile Ala Arg Leu Met Leu Asp Gly Gly Ser Thr Val
 210 215 220
 Ala Ala Asn Glu Ile Val Ile Thr Asn Gly Cys His Gly Ala Leu Ser
 225 230 235 240
 Ile Ala Leu Leu Ser Val Cys Lys Pro Gly Asp Ile Val Ala Val Glu
 245 250 255
 Ser Pro Ser Phe His Gly Thr Met Gln Met Leu Arg Gly Phe Asp Ile
 260 265 270
 Lys Ala Ile Glu Ile Pro Thr Asp Pro Glu Thr Gly Ile Ser Ile Glu
 275 280 285
 Ala Leu Glu Leu Ala Leu Glu Gln Trp Pro Ile Lys Ala Val Ile Leu
 290 295 300
 Val Pro Asn Cys Asn Asn Pro Leu Gly Phe Ile Met Pro Glu Ala Arg
 305 310 315 320
 Lys Lys Gln Val Leu Ala Leu Ala Gln Arg His Asp Ile Val Ile Val
 325 330 335
 Glu Asp Asp Ile Tyr Gly Glu Leu Ala Ala Glu Tyr Pro Arg Pro Arg
 340 345 350
 Thr Ile His Ser Met Asp Ile Asp Gly Arg Val Leu Leu Cys Ser Ser
 355 360 365
 Phe Thr Lys Thr Val Ala Pro Gly Leu Arg Val Gly Trp Ile Val Pro
 370 375 380
 Gly Arg Tyr Tyr Asp Arg Val Met His Met Lys Tyr Ala Ala Gly Gly
 385 390 395 400
 Phe Asn Val Pro Gly Thr Gln Met Ala Val Ala Ala Phe Ile Arg Asp
 405 410 415
 Gly His Tyr His Arg His Val Arg Arg Met Arg Gln Ile Tyr Gln Gln
 420 425 430
 Asn Met Glu Thr Tyr Thr Cys Trp Val Arg Gln Tyr Phe Pro Ala Glu
 435 440 445
 Ile Cys Val Thr Arg Pro Gln Gly Ser Phe Leu Leu Trp Val Glu Leu
 450 455 460
 Pro Glu Thr Val Asp Met Val Cys Val Ser Lys Gln Leu Cys Arg Leu
 465 470 475 480
 Lys Ile Gln Ala Ala Ala Gly Ser Leu Phe Ser Ala Ser Gly Lys Tyr
 485 490 495
 Arg Asn Cys Leu Arg Ile Asn Val Ala Leu Pro Pro Thr Asp Lys Asn
 500 505 510
 Arg Glu Ala Leu Lys Lys Met Ser Thr Arg Arg Gly Gly Val Pro Arg
 515 520 525
 Leu

<210> 7281

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7281

Pro Met Glu Lys His Thr Glu Leu Lys Arg Ala Lys Leu Leu Ala Leu
 1 5 10 15
 Ser Leu Leu Leu Ile Ala Val Ala Ala Phe Ile Thr Thr Leu Phe Met
 20 25 30
 Pro Gln Thr Phe Trp Val Arg Gly Val Lys Ala Ile Ala Glu Ala Ala
 35 40 45

Met Val Gly Ala Leu Ala Asp Trp Phe Ala Val Val Ala Leu Phe Arg
 50 55 60
 Arg Val Pro Ile Pro Phe Ile Ser Arg His Thr Ala Ile Ile Pro Arg
 65 70 75 80
 Asn Lys Asp Arg Ile Gly Asp Asn Leu Gly Gln Phe Val Gln Glu Lys
 85 90 95
 Phe Leu Asp Thr Gln Ser Leu Val Asp Leu Ile Arg Arg Tyr Glu Pro
 100 105 110
 Ala Gln Met Ile Gly Thr Trp Phe Ser Gln Pro Asp Asn Ala Arg Arg
 115 120 125
 Val Gly Gln His Leu Val Gln Val Met Gly Gly Phe Leu Glu Leu Thr
 130 135 140
 Asp Asp Gly Arg Ile Gln Arg Leu Leu Lys Arg Ala Val His Lys Ala
 145 150 155 160
 Ile Asp Lys Val Asp Leu Thr Glu Thr Ser Ala Val Met Leu Glu Ser
 165 170 175
 Met Thr Lys Asn Asn Arg His Gln Val Leu Leu Asp Ala Ile Ile Asn
 180 185 190
 Arg Leu Ile Thr Leu Ile Gln Arg Glu Ser Thr Arg Glu Phe Ile Ala
 195 200 205
 Asp Gln Ile Val His Trp Leu Lys Thr Glu His Pro Arg Lys Ala Met
 210 215 220
 Val Leu Pro Thr Glu Trp Leu Gly Asp Gln Ser Ala Glu Met Val Ser
 225 230 235 240
 Asn Ala Val Asn Thr Leu Leu Asp Asp Ile Ser His Asp Arg Thr His
 245 250 255
 Gln Ile Arg Gln Ala Phe Asp Arg Ala Thr Ile Lys Phe Ile Asp Asn
 260 265 270
 Leu Lys Asn Asp Pro Glu Met Thr Ala Lys Ala Glu Asn Ile Lys His
 275 280 285
 Tyr Leu Lys Asn Asp Glu Ala Phe Asn Arg Tyr Leu Gly Glu Met Trp
 290 295 300
 Ala Asp Leu Arg Gln Trp Leu Lys Asn Asp Met Gln Ser Asp Asp Ser
 305 310 315 320
 Arg Val Lys Gln Arg Ile Ala Asn Ala Gly Leu Trp Phe Gly Glu Thr
 325 330 335
 Leu Thr Asn Asp Ala Ser Leu Arg Ala Ser Leu Asn Glu His Leu Glu
 340 345 350
 Gln Ala Ala His Arg Val Ala Pro Asp Phe Ala Ala Phe Leu Thr Arg
 355 360 365
 His Ile Ser Asp Thr Val Lys Ser Trp Asp Ala Lys Asp Met Ser Arg
 370 375 380
 Gln Ile Glu Leu Asn Ile Gly Lys Asp Leu Gln Phe Ile Arg Val Asn
 385 390 395 400
 Gly Thr Leu Val Gly Gly Thr Ile Gly Leu Ile Leu Phe Leu Leu Ser
 405 410 415
 Gln Leu Pro Ala Val Leu Gly His
 420 425

<210> 7282

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7282

Gly Thr Arg Met Arg Val Pro Ala Thr His Ala Cys Pro Leu Phe Ile
 1 5 10 15
 Asn Pro Ala Trp Ile Thr Cys Gly Ile Ala Cys Ser Arg Ser Thr Ser
 20 25 30
 Ser Ser Arg Ile Val Gly Asp Leu Pro Pro Asn Ser Ser Val Thr Arg
 35 40 45

Leu Lys Leu Ser Ala Ala Leu Arg Arg Ile Ala Leu Pro Val Phe Val
 50 55 60
 Glu Pro Val Asn Glu Ile Phe Ala Thr Ser Gly Trp Arg Leu Arg Val
 65 70 75 80
 Ser Pro Thr Val Ser Pro Arg Pro Val Thr Met Leu Asn Thr Pro Gly
 85 90 95
 Gly Ser Ala Ala Ser Arg Ser Ala Ser Val Thr Ile Cys Val Cys Arg
 100 105 110
 Ala Leu Ile Ser Leu Gly Leu Met Thr Ala Val Gln Pro Ala Ala Ser
 115 120 125
 Ala Ala Ala Ser Leu Pro Gln Ile Asn Pro Ala Ser Leu Phe His Gly
 130 135 140
 Val Ile Ser Pro Ala Thr Pro Ser Gly Val Ile Cys Thr Val Ala Ala
 145 150 155 160
 Pro Ala Glu Val Thr Asn Ser Asn Ala Ser Ser Ala Ser Met Ala
 165 170 175

<210> 7283

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 7283

Ser Met His Arg Ser Gly Leu Thr Glu Leu Glu Val Val Met Ala Val
 1 5 10 15
 Val Arg Arg Gly Ser Phe Arg Gly Ala Ala Gln Glu Leu Gly Met Ser
 20 25 30
 Ala Thr Ala Val Ser Asn Ala Ile Ala Gly Leu Glu Ser Arg Leu Glu
 35 40 45
 Thr Arg Leu Phe Asn Arg Thr Thr Arg Ser Val Ala Leu Thr Asp Ala
 50 55 60
 Gly Gln Arg Tyr Val Ala Arg Ile Gly Pro Ala Leu Gln Glu Ile Arg
 65 70 75 80
 Leu Ala Gly Glu Glu Ile His Ser Asp Thr Gly Glu Pro Ala Gly Thr
 85 90 95
 Leu Arg Leu Asp Val Pro Asn His Ile Gly Thr Leu Phe Leu Asp Gln
 100 105 110
 Leu Leu Ile Asp Phe Met Ile Arg Tyr Pro Lys Met Arg Val Glu Thr
 115 120 125
 Val Ser Glu Ala Arg Met Ile Asp Ile Val Ala Glu Gly Tyr Asp Ala
 130 135 140
 Gly Ile Arg Leu Glu Glu Ser Val Pro Gln Asp Met Ile Ala Val Pro
 145 150 155 160
 Leu Thr Gly Glu Ile Arg Gln Leu Val Thr Ala Thr Pro Asp Tyr Phe
 165 170 175
 Ala Arg His Gly Ile Pro Glu Thr Pro Asp Asp Leu Leu Ser His Gln
 180 185 190
 Gly Ile Gly Met Arg Met Ala His Gly Gly Ile Tyr Arg Trp Glu Leu
 195 200 205
 Ala Arg Arg Gly Glu Thr Tyr Ala Leu Ala Val Pro Pro Arg Phe Ala
 210 215 220
 Thr Ser Asp Leu Phe Ala Ser Ile Arg Ala Val Lys Ala Gly Leu Gly
 225 230 235 240
 Val Gly Phe Leu Pro Glu Leu Tyr Ile Gln Asp Glu Leu Lys Ser Gly
 245 250 255
 Glu Leu Val Ser Val Leu Asn Asp Trp Ala Gln Pro Phe Ala Gly Leu
 260 265 270
 Arg Leu Tyr Tyr Pro Gly His Arg His Val Pro Pro Gly Leu Arg Ala
 275 280 285
 Leu Val Ala Met Ile Arg Glu Arg Gly Ile Ile Pro Gly
 290 295 300

<210> 7284
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 7284

```

Pro Ala Arg Asp Ile Glu Ile Ala Gly Tyr Arg Leu Ala Gln Arg Ile
1      5      10      15
Pro Ala Gln Asn Gly Arg Val Glu His Phe Ile Leu Thr His Gly Ala
20     25     30
Arg Arg Leu Ala Arg Gln Gln Gln Pro Phe Phe Ile Gly Glu Ala Val
35     40     45
Glu Gly Gly Asn Ala Gly Ala Gln Lys Thr Gly Pro Phe Ala Leu Ala
50     55     60
Asn Gln Arg Arg Arg Gln Arg Ala Gly Arg Leu Phe Cys Gly Gly Val
65     70     75     80
Leu Arg Gly Gln Gln Lys Ile Arg Ile His Pro Arg Pro Ala Arg Ala
85     90     95
Leu Ala His Gln Ile Pro Phe Ala Arg Gln Asn Gly Ile Arg Arg Leu
100    105    110
Asp Gly Phe Ala Arg His Leu Gln Leu Phe Arg Gln Gln Ala Asp Gly
115    120    125
Arg Tyr Pro Val Ala Arg Leu Gln His Ala Ala His Asp Val Val Ala
130    135    140
Ile Ala Gly Ile Asn Leu Val Ile Ala Arg Leu His Val Leu Pro Asn
145    150    155    160
Phe Thr Leu Phe Val Ser Phe Tyr Tyr Val Met Asn Gly Val Asp Leu
165    170    175
Leu His Arg Met Thr His Ala Ala Gln Lys Arg Gly Lys Thr Met Ser
180    185    190
Thr Arg Val Asn His His Lys Ala Thr Pro Ala Leu Thr Asn Ala Leu
195    200    205
Ser Ala Leu Ser Met Glu Val Ala Lys Thr Ser Ile Asp Pro Ala Leu
210    215    220
Lys His Leu Ile Asp Ile Arg Val Ser Gln Leu Asn Gly Cys Thr Phe
225    230    235    240
Cys Leu Asp Met His Ser Lys Glu Ala Lys Ile Ala Gly Glu Arg Glu
245    250    255
Leu Arg Leu Tyr His Leu Ala Ala Trp Arg Glu Ser Pro Leu Phe Ser
260    265    270
Ala Arg Glu Lys Ala Ala Leu Ala Phe Thr Glu Ala Leu Thr Gln Ile
275    280    285
Gly Val His Gly Val Ser Asp Ala Leu Tyr Arg Ser Val Ala Glu His
290    295    300
Phe Ser Asp Val Glu Ile Ser Glu Leu Asn Phe Ala Ile Val Ala Ile
305    310    315    320
Asn Ala Trp Asn Arg Leu Gly Ile Thr Ser Arg Met Glu Pro Gly Ser
325    330    335
Leu Asp Ala Ala Tyr Gly Leu Asn Lys Ala Asn Leu Glu
340    345    350

```

<210> 7285
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 7285

```

Trp Arg Thr Thr Arg Gly Leu Pro Met Ser Glu Glu Asp Leu Phe Ser
1      5      10      15
Arg Arg Pro Met Gly Met Arg Met Ala Met Ile Val Arg Gln Trp Arg

```

[illegible]

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<210> 7286
<211> 248
<212> PRT
<213> Enterobacter cloacae
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<400> 7286

Arg 1	Met	Met	Ile	Ser 5	Trp	Pro	Leu	Arg	Ser 10	Pro	His	Pro	Gly	Arg 15	Arg
Met	Leu	Lys	Thr 20	Ser	Leu	Pro	Ser	Asp 25	Asn	Ser	Ala	Met	Leu 30	Glu	Lys
Ala	Ile	Ala 35	Ala	Val	Ala	Ala 40	Ala	Met	Ala	Asp	Pro	Ser 45	Arg	Val	Lys
Met	Leu 50	Cys	Ala	Leu	Met	Asp 55	Gly	Arg	Ala	Trp	Thr 60	Ala	Thr	Glu	Leu
Ser 65	Ala	Ala	Ala	Asp 70	Val	Ala	Pro	Ser	Thr	Ala 75	Ser	Gly	His	Leu 80	Ala
Arg	Leu	Val	Glu 85	Gly	Gln	Leu	Ile	Thr	Cys 90	Leu	Ser	Gln	Gly 95	Arg	His
Arg	Tyr	Tyr 100	Arg	Leu	Ala	Gly	His	Asp 105	Val	Ala	Ala	Leu 110	Val	Glu	Gln
Met	Met	Gly 115	Leu	Ser	Trp	Ser	Arg 120	Ile	Thr	Pro	Pro	Glu 125	Thr	Ser	Ala
Pro	Lys 130	Ala	Met	Arg	Glu	Ala 135	Arg	Thr	Cys	Tyr	Asp 140	His	Leu	Ala	Gly
Ala 145	Val	Ala	Val	Gln 150	Ile	Tyr	Asp	Phe	Met	Gln 155	Ala	Glu	Gly	Trp 160	Leu
Glu	Ala	Asp	Gly 165	Ser	Ala	Leu	Thr	Leu	Tyr 170	Gly	Arg	Glu	Gln	Phe 175	Leu
Ala	Leu	Gly 180	Ile	Pro	Leu	Ser	Ala 185	His	Pro	Arg	Arg	Lys 190	Ala	Cys	Cys
Ala	Cys 195	Leu	Asp	Trp	Ser	Glu	Arg 200	Arg	Phe	His	Leu	Gly 205	Gly	Glu	Ala
Gly	Ala 210	Ala	Leu	Leu	Ile	His 215	Met	Glu	Ser	Lys 220	Gly	Trp	Ile	Gln	Arg
Val 225	Ala	Gly	Tyr	Arg 230	Glu	Val	Val	Val	Thr	Ala 235	Ser	Gly	Lys	Ser	Ala 240
Val	Arg	Lys	His 245	Phe	Ser	Arg									

<210> 7287
<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 7287

Pro	His	Trp	His	Ser	Glu	Glu	Ser	Ile	Met	Glu	Phe	Tyr	Glu	Asn	Arg
1				5					10					15	
Ser	Lys	Arg	Pro	Phe	Ile	Ala	Phe	Val	Trp	Val	Ala	Lys	Thr	Leu	Arg
			20					25					30		
Asn	Trp	Tyr	Arg	Ile	Asn	Arg	Thr	Arg	Arg	Ile	Leu	Ser	Gln	Met	Ser
		35					40					45			
Asp	Glu	Gln	Leu	Lys	Asp	Val	Gly	Leu	Ser	Arg	Tyr	Asp	Val		
	50					55					60				

<210> 7288

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 7288

Gln	Thr	Gly	Leu	Thr	Gln	Pro	Glu	Glu	Val	Tyr	Met	His	Thr	Ile	Glu
1				5					10					15	
Gln	Ile	Phe	Ile	Asn	Gly	Glu	Phe	Val	Thr	Pro	His	Gly	Thr	Glu	Arg
			20					25					30		
Phe	Asp	Leu	Tyr	Asn	Pro	Ala	Thr	Ala	Gln	Val	Ile	Gly	Gln	Val	Arg
	35						40					45			
Leu	Ala	Asp	Glu	Val	Asp	Ala	Glu	Arg	Ala	Ile	Ala	Ala	Ala	Lys	Ala
	50					55					60				
Ala	Phe	Pro	Ala	Trp	Ser	Gln	Thr	Thr	Lys	Gln	Glu	Arg	Ile	Ala	Ala
65				70					75					80	
Leu	Lys	Arg	Met	His	Ala	Ala	Val	Ala	Ala	Arg	His	Asp	Ala	Leu	Leu
				85					90					95	
Glu	Ala	Val	Ile	Glu	Glu	Tyr	Gly	Ala	Pro	Ala	Ser	Arg	Ser	Ala	Trp
			100					105					110		
Met	Ala	Ser	Tyr	Pro	Ala	Glu	Val	Ile	Ala	Gln	Ala	Ile	Glu	Ala	Leu
		115					120					125			
Glu	Ala	Phe	Glu	Phe	Val	Thr	Ser	Ala	Gly	Ala	Ala	Thr	Val	Gln	Met
	130					135					140				
Thr	Pro	Leu	Gly	Val	Ala	Gly	Leu	Ile	Thr	Pro	Trp	Asn	Ser	Asp	Ala
145				150						155					160
Gly	Phe	Ile	Cys	Gly	Lys	Leu	Ala	Ala	Ala	Leu	Ala	Ala	Gly	Cys	Thr
			165					170						175	
Ala	Val	Ile	Lys	Pro	Ser	Glu	Met	Ser	Ala	Leu	Gln	Thr	Gln	Ile	Val
			180					185					190		
Thr	Glu	Ala	Leu	Arg	Asp	Ala	Ala	Leu	Pro	Pro	Gly	Val	Phe	Asn	Ile
		195				200						205			
Val	Thr	Gly	Arg	Gly	Glu	Thr	Val	Gly	Glu	Thr	Leu	Ser	Arg	His	Pro
	210					215					220				
Asp	Val	Ala	Lys	Ile	Ser	Phe	Thr	Gly	Ser	Thr	Asn	Thr	Gly	Lys	Ala
225				230						235					240
Ile	Leu	Arg	Asn	Ala	Ala	Glu	Ser	Phe	Lys	Arg	Val	Thr	Leu	Glu	Leu
			245						250					255	
Gly	Gly	Lys	Ser	Pro	Thr	Ile	Leu	Leu	Asp	Asp	Val	Asp	Leu	Glu	Gln
			260					265					270		
Ala	Ile	Pro	Gln	Val	Ile	Gln	Ala	Gly	Phe	Met	Asn	Ser	Gly	Gln	Ala
		275					280					285			
Cys	Val	Ala	Gly	Thr	Arg	Ile	Leu	Val	Pro	Tyr	Ser	Arg	Lys	Ala	Glu
	290					295					300				
Ile	Glu	Thr	Ala	Leu	Ala	Gln	Ala	Val	Ala	Ala	Val	Lys	Ser	Gly	Asp
305				310					315						320
Pro	Arg	Asn	Ser	Thr	Thr	Asp	Val	Gly	Pro	Met	Val	Ser	Glu	Lys	Gln
				325					330					335	

Trp Leu Arg Val Gln Gly Tyr Ile Arg Lys Gly Ile Glu Glu Gly Ala
 340 345 350
 Arg Leu Leu Ala Gly Gly Glu Gly Arg Pro Glu Gly Thr Arg Asp Gly
 355 360 365
 Trp Phe Val Arg Pro Thr Leu Phe Ala Gly Val Asn Asn Arg Met Thr
 370 375 380
 Ile Ala Arg Asp Glu Ile Phe Gly Pro Val Leu Cys Val Ile Pro Tyr
 385 390 395 400
 Gln Asp Glu Ala Glu Ala Ile Ala Ile Ala Asn Asp Thr Glu Tyr Gly
 405 410 415
 Leu Ser Ala Met Val Leu Gly Gly Asp Val Asp Arg Ala Arg Arg Val
 420 425 430
 Ala Gln Gln Ile Val Ser Gly Arg Val Leu Val Asn Thr Leu Ala His
 435 440 445
 Glu Pro Lys Ala Pro Phe Gly Gly Phe Lys His Ser Gly Val Gly Arg
 450 455 460
 Glu Met Gly Glu Trp Gly Ile Arg Ala Phe Met Glu Pro Arg Ser Val
 465 470 475 480
 Leu Gly

<210> 7289

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 7289

Ser Phe Ala Leu Tyr Arg Ser Ile Val Leu Phe His Pro Ala Phe Ser
 1 5 10 15
 Pro Gln His His Ser Gly Glu Thr Ile Met Ile Ala Val Leu Phe Glu
 20 25 30
 Ala Lys Ala Ala Pro Ala His Gln Ala Arg Tyr Leu Gln Leu Ala Ala
 35 40 45
 Glu Leu Lys Pro Leu Leu Ala Asp Ile Asp Gly Phe Ile Asp Ile Glu
 50 55 60
 Arg Phe Gln Ser Leu Thr Thr Asp Gly Lys Ile Leu Ser Leu Ser Trp
 65 70 75 80
 Trp Arg Asp Glu Glu Ala Val Arg Arg Trp Lys Gln Asn Val Phe His
 85 90 95
 Gln Ala Ala Gln Ala Glu Gly Arg Ala Leu Ile Phe Ser Phe Tyr Arg
 100 105 110
 Ile Arg Val Ala Gln Leu Val Arg Glu Tyr Ser Ser Glu Thr Gly Gly
 115 120 125
 His Ala Asp Val
 130

<210> 7290

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7290

Asp Arg Lys Ile Met Thr Pro Glu Gln Lys Phe Ala Arg Trp Val Arg
 1 5 10 15
 Val Ser Ile Ala Ser Phe Leu Leu Met Phe Val Tyr Phe Ile Val Ala
 20 25 30
 Asp Ile Trp Ile Pro Leu Thr Pro Asp Ser Thr Val Met Arg Val Val
 35 40 45
 Thr Pro Val Ser Ala Arg Val Ser Gly Tyr Val Ala Ala Val His Val
 50 55 60
 His Asn Asn Ser Gln Val Lys Lys Gly Asp Leu Leu Phe Glu Leu Asp

65					70				75				80
Ala	Thr	Pro	Phe	Arg	Asn	Lys	Val	Glu	Ala	Gln	Ile	Ala	Leu
				85					90				95
Gln	Ala	Arg	Leu	Ser	Asn	Asp	Gln	Leu	Asp	Ala	Gln	Ile	Ala
			100					105					110
Gln	Ala	Ser	Leu	Lys	Thr	Ala	Val	Leu	Thr	Ala	Arg	Asn	Asp
			115					120				125	Lys
Thr	Phe	Asp	Arg	Tyr	Gln	Lys	Leu	Ser	Thr	Leu	Gln	Asn	Val
			130				135					140	Ser
Ala	Asp	Leu	Asp	Lys	Val	Arg	Thr	Thr	Trp	Gln	Ser	Ser	Glu
145					150					155			Gln
Val	Ser	Ser	Ile	Gln	Ala	Asn	Ile	His	Asn	Leu	Arg	Ile	Gln
			165						170				175
Glu	Arg	Asp	Glu	His	Arg	Asn	Val	Thr	Leu	Gln	Lys	Tyr	Arg
			180					185					190
Leu	Asp	Glu	Ala	Glu	Leu	Asn	Leu	Gly	Trp	Thr	Lys	Val	Tyr
			195				200					205	Ala
Ala	Asp	Gly	Thr	Val	Ser	Asn	Leu	Gln	Leu	Ser	Pro	Gly	Phe
			210				215				220		Tyr
Ser	Ser	Gly	Ser	Ala	Ala	Leu	Ala	Leu	Val	Asn	Thr	Arg	Ile
225					230					235			Asp
Val	Ala	Asp	Phe	Arg	Glu	Lys	Ser	Leu	Arg	His	Thr	His	Gln
			245						250				Gly
Asp	Ala	Ala	Val	Val	Phe	Asp	Ala	Phe	Pro	Gly	His	Val	Phe
			260					265					270
His	Val	Thr	Ser	Ser	Asp	Ala	Gly	Ile	Leu	Ala	Gly	Gln	Glu
			275				280						285
Asn	Gly	Gln	Leu	Ser	Glu	Pro	Glu	Thr	Ser	Asn	Arg	Trp	Val
			290			295					300		Arg
Ala	Gln	Arg	Met	Arg	Ile	His	Val	Ala	Leu	Asp	Glu	Ala	Leu
305					310					315			Pro
Pro	Leu	Pro	Thr	Gly	Ala	Arg	Ala	Thr	Val	Gln	Leu	Tyr	Asn
			325						330				Ser
Gly	Pro	Phe	Ala	Arg	Phe	Phe	Ser	Gly	Met	Gln	Ile	His	Leu
			340					345					350
Leu	Leu	His	Tyr	Val	Tyr								
			355										

<210> 7291

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 7291

Lys	Arg	Pro	Gln	Asn	Asn	Glu	Glu	Ser	Arg	Met	Thr	Met	Ile	Lys	Gly
1				5					10					15	
Ile	Thr	Gly	Ser	Ala	Val	Leu	Leu	Ala	Ala	Leu	Ser	Leu	Pro	Leu	Gln
			20					25					30		
Ala	Ala	Glu	Pro	Val	Lys	Val	Gly	Ser	Lys	Ile	Asp	Thr	Glu	Gly	Ala
			35				40					45			
Leu	Leu	Gly	Asn	Ile	Ile	Leu	Gln	Val	Leu	Glu	Ser	His	Gly	Val	Lys
			50			55					60				
Thr	Val	Asn	Lys	Val	Gln	Leu	Gly	Thr	Thr	Pro	Val	Val	Arg	Gly	Ala
65					70					75					80
Ile	Thr	Ser	Gly	Glu	Leu	Asp	Ile	Tyr	Pro	Glu	Tyr	Thr	Gly	Asn	Gly
			85						90					95	
Ala	Phe	Phe	Phe	Lys	Asp	Glu	Asn	Asp	Pro	Ala	Trp	Lys	Asn	Ala	Lys
			100					105					110		
Ala	Gly	Tyr	Glu	Lys	Val	Lys	Lys	Leu	Asp	Ala	Glu	Lys	Asn	Lys	Leu
			115				120					125			
Val	Trp	Leu	Thr	Pro	Ala	Pro	Ala	Asn	Asn	Thr	Trp	Thr	Ile	Ala	Val

130	135	140
Arg Lys Asp Ile Ala	Glu Lys Gly Lys Leu Thr	Ser Leu Asp Asp Leu
145	150	155
Ser Arg Tyr Leu Lys	Glu Lys Gly Glu Phe	Lys Leu Ala Ala Ser Ala
165	170	175
Glu Phe Ile Glu Arg	Ala Asp Ala Leu Pro	Ala Phe Glu Lys Ala Tyr
180	185	190
Asp Phe Lys Leu Asp	Gln Ala Gln Leu Leu	Ser Leu Ala Gly Gly Asp
195	200	205
Thr Ala Val Thr Ile	Lys Ala Ala Ala Gln	Gln Thr Ser Gly Val Asn
210	215	220
Ala Ala Met Ala Tyr	Gly Thr Asp Gly Pro	Val Ala Ala Leu Gly Leu
225	230	235
Gln Thr Leu Thr Asp	Pro Lys Gly Val Gln	Pro Ile Tyr Ala Pro Thr
245	250	255
Pro Val Val Arg Glu	Ala Val Leu Lys Ala	Tyr Pro Asp Ile Ala Glu
260	265	270
Trp Leu Lys Pro Val	Phe Glu Lys Leu Asp	Ala Lys Thr Leu Gln Gln
275	280	285
Leu Asn Ala Ser Ile	Ala Val Glu Gly Leu	Asp Ala Lys Lys Val Ala
290	295	300
Ala Asp Phe Leu Lys	Gln Gln Gly Leu Val	Lys 305
305	310	315

<210> 7292

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 7292

Arg Asp Lys Ala Val	Pro Ile Lys Cys His	Asn Arg Val Leu Leu Leu
1	5	10
Leu Ala Cys Val Ala	Ile Ala Ala Val Ala	Leu Pro Phe Val Asn Val
20	25	30
Ala Pro Asn Arg Leu	Val Ser Gly Glu Pro	Arg Ala Leu Trp Gln Ile
35	40	45
Trp Ala Phe Thr Pro	Leu Leu Leu Gly Ala	Ala Leu Ala Ser Thr Val
50	55	60
Ala Leu Ala Phe Trp	Pro Gly Arg Thr Ala	Leu Trp Leu Thr Phe Leu
65	70	75
Leu Ser Glu Ala Leu	Phe Ile Val Leu Phe	Trp Ser Ala Gly Gln Ala
85	90	95
Ala Thr Gln Met Ala	Ala Val Glu Ser Pro	Leu Ala Arg Thr Ser Val
100	105	110
Gly Ser Gly Leu Trp	Leu Trp Leu Ala Leu	Cys Leu Leu Val Cys Ser
115	120	125
Asp Ala Ile Arg Arg	Leu Thr Pro Gln Pro	Val Trp Arg Trp Leu Leu
130	135	140
Asn Ala Gln Phe Trp	Val Ile Pro Leu Leu	Ile Leu Phe Ser Gly Asp
145	150	155
Leu Asn Gln Leu Ser	Leu Leu Lys Glu Tyr	Val Asn Arg Gln Glu Val
165	170	175
Phe Asp Asn Ala Leu	Ala Gln His Leu Thr	Ile Leu Phe Gly Thr Leu
180	185	190
Ile Pro Ala Leu Leu	Leu Gly Val Pro Leu	Gly Met Trp Cys Tyr Arg
195	200	205
His Thr Ser Arg Gln	Gly Ala Val Phe Thr	Val Leu Asn Val Ile Gln
210	215	220
Thr Ile Pro Ser Val	Ala Leu Phe Gly Leu	Leu Ile Ala Pro Leu Ala
225	230	235
Gly Leu Val Lys Ser	Phe Pro Ala Leu Ala	Ala Ala Gly Ile Ala Gly

				245					250					255			
Thr	Gly	Leu	Thr	Pro	Ala	Leu	Ile	Ala	Leu	Val	Leu	Tyr	Ala	Leu	Leu		
			260					265					270				
Pro	Leu	Val	Arg	Gly	Val	Val	Ala	Gly	Leu	Ser	Gln	Val	Pro	Pro	Asp		
		275					280					285					
Val	Leu	Glu	Ser	Ala	His	Ala	Met	Gly	Met	Ser	Ala	Arg	Gln	Cys	Phe		
	290					295					300						
Trp	Lys	Ile	Gln	Leu	Pro	Leu	Ala	Leu	Pro	Leu	Leu	Val	Arg	Ser	Leu		
305					310					315					320		
Arg	Val	Val	Thr	Val	Gln	Thr	Val	Gly	Met	Ala	Val	Ile	Ala	Ala	Leu		
			325					330						335			
Ile	Gly	Ala	Gly	Gly	Phe	Gly	Ala	Leu	Val	Phe	Gln	Gly	Leu	Leu	Ser		
		340						345					350				
Ser	Ala	Leu	Asp	Leu	Val	Leu	Leu	Gly	Val	Val	Pro	Thr	Ile	Ala	Leu		
		355				360					365						
Ala	Val	Val	Leu	Asp	Ala	Leu	Phe	Ala	Leu	Trp	Leu	Ala	Leu	Leu	Arg		
	370					375					380						
Arg	Arg	Ala	Asn	Asp													
385					390												

<210> 7293

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 7293

Ser	Gly	Arg	Ala	Ala	Leu	Glu	His	Trp	Ser	Ser	Arg	Gly	Cys	Ser	Val		
1			5					10					15				
Ala	Arg	Trp	Ile	Trp	Cys	Cys	Trp	Ala	Ser	Cys	Pro	Gln	Leu	Arg	Trp		
		20						25				30					
Arg	Ser	Tyr	Trp	Met	Pro	Cys	Leu	Pro	Cys	Gly	Ser	Arg	Cys	Ser	Gly		
		35				40					45						
Glu	Glu	Pro	Met	Ile	Glu	Phe	His	Asp	Val	Ser	Lys	Thr	Phe	Ala	Gly		
	50				55					60							
Arg	Pro	Ala	Ala	Ser	His	Leu	Asn	Leu	His	Phe	Ala	Glu	Gly	Ala	Phe		
65				70					75					80			
Ser	Ile	Leu	Ile	Gly	Thr	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Thr	Leu	Lys		
		85						90					95				
Met	Ile	Asn	Arg	Leu	Val	Glu	His	Asp	Ser	Gly	Thr	Ile	Arg	Phe	Ala		
		100						105					110				
Gly	Glu	Glu	Ile	Arg	Ser	Leu	Pro	Val	Leu	Glu	Leu	Arg	Arg	Arg	Met		
	115					120				125							
Gly	Tyr	Ala	Ile	Gln	Ser	Ile	Gly	Leu	Phe	Pro	His	Trp	Thr	Val	Ala		
	130					135				140							
Gln	Asn	Ile	Ala	Thr	Val	Pro	Gln	Leu	Glu	Lys	Trp	Ser	Arg	Gly	Lys		
145				150					155					160			
Ile	Asn	Glu	Arg	Val	Asp	Glu	Leu	Met	Ala	Leu	Leu	Gly	Leu	Asp	Ala		
		165						170					175				
Ser	Leu	Arg	Asn	Arg	Tyr	Pro	His	Gln	Leu	Ser	Gly	Gly	Gln	Gln	Gln		
		180						185					190				
Arg	Val	Gly	Val	Ala	Arg	Ala	Leu	Ala	Ala	Asn	Pro	Gln	Val	Leu	Leu		
		195				200					205						
Met	Asp	Glu	Pro	Phe	Gly	Ala	Leu	Asp	Pro	Val	Thr	Arg	Gly	Ala	Leu		
	210				215					220							
Gln	Ala	Glu	Met	Ser	Arg	Ile	His	Arg	Ile	Leu	Gly	Arg	Thr	Ile	Val		
225				230					235					240			
Leu	Val	Thr	His	Asp	Ile	Asp	Glu	Ala	Leu	Arg	Leu	Ala	Asp	Arg	Leu		
			245					250					255				
Val	Leu	Met	Asp	His	Gly	Glu	Val	Val	Gln	Gln	Gly	Thr	Pro	Leu	Glu		
		260						265				270					
Leu	Leu	Thr	Ser	Pro	Ala	Asn	Asp	Phe	Val	Arg	Glu	Phe	Phe	Gly	Arg		

		275					280					285				
Ser	Glu	Leu	Gly	Val	Arg	Leu	Leu	Ser	Leu	Arg	Thr	Val	Arg	Asp	Tyr	
	290					295					300					
Leu	Arg	Pro	Gln	Asp	Ala	Gln	Ile	Gly	Gly	Glu	Pro	Leu	His	Asp	Gly	
305					310					315					320	
Met	Ser	Leu	Arg	Asp	Ala	Leu	Ser	Ala	Phe	Val	Ala	Arg	Gln	Cys	Glu	
				325					330					335		
Val	Leu	Pro	Val	Ala	Asp	Gly	Gln	Gly	Thr	Pro	Cys	Gly	Thr	Ile	His	
			340					345					350			
Phe	Arg	Asp	Leu	Leu	Ala	Gly	Glu	Val	Thr	Arg	Glu	Val	Gly	Pro		
		355					360					365				

<210> 7294

$\langle 211 \rangle$ 257

<212> PRT

<213> Enterobacter cloacae

<400> 7294

Ala 1	Arg	Pro	Leu	Tyr 5	Pro	Asn	Tyr	Leu	Thr 10	Ile	Ala	Ala	Gly 15	Glu
Arg	Met	Leu	Arg	Val 20	Leu	Ile	Val	Asp 25	Asp	Glu	Pro	Leu	Ala 30	Glu
Asn	Leu	Arg	Val	Leu 35	Leu	Gln	Glu 40	Gln	Ser	Asp	Ile	Glu 45	Val	Gly
Glu	Cys 50	Ala	Asn	Ala	Ile	Glu 55	Gly	Ile	Gly	Ala	Val 60	His	Lys	Leu
Pro 65	Asp	Val	Leu	Phe 70	Leu	Asp	Ile	Gln	Met	Pro 75	Arg	Ile	Ser	Leu 80
Glu	Met	Val	Gly	Met 85	Leu	Asp	Pro	Glu	His 90	Arg	Pro	Tyr	Ile 95	Phe
Leu	Thr	Ala	Phe 100	Asp	Glu	Tyr	Ala	Val 105	Lys	Ala	Phe	Glu	Glu 110	Ala
Phe	Asp	Tyr 115	Leu	Leu	Lys	Pro	Ile 120	Glu	Glu	Lys	Arg	Leu 125	Glu	Thr
Leu	Thr 130	Arg	Leu	Arg	Gln	Glu 135	Arg	Thr	Ala	Gln	Asp 140	Val	Thr	Leu
Pro 145	Glu	His	Gln	Gln 150	Pro	Leu	Lys	Phe	Ile	Pro 155	Cys	Thr	Gly	Ser 160
Arg	Ile	Tyr	Leu	Leu 165	Gln	Met	Asp	Asp 170	Val	Ala	Phe	Val	Ser 175	Arg
Leu	Ser	Gly 180	Val	Tyr	Val	Thr	Ser	Ala 185	Glu	Gly	Asn	Glu	Gly 190	Thr
Glu	Leu	Thr 195	Leu	Arg	Thr	Leu	Glu 200	Ser	Arg	Thr	Pro	Leu 205	Ile	Cys
His	Arg 210	Gln	Tyr	Leu	Val	Asn 215	Met	Ala	His	Leu	Lys 220	Glu	Ile	Leu
Glu 225	Asp	Asn	Gly	Gln 230	Ala	Glu	Leu	Val	Leu	Arg 235	Ala	Gly	Gln	Val 240
Pro	Val	Ser	Arg	Arg 245	Tyr	Leu	Lys	Ser	Leu 250	Lys	Glu	Ala	Ile	Leu 255

<210> 7295

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7295

Ile Arg Asn Thr Asn His Leu Val Tyr Arg Asp Asn Trp Asn Ile Gln
1 5 10 15

Leu	Thr	Lys	Thr	Gly	Phe	Thr	Asn	Ala	Ala	Gly	His	Cys	Leu	Val	Met
		20						25					30		
Arg	Thr	Val	Phe	Asn	Gly	Lys	Pro	Val	Ala	Leu	Val	Val	Met	Asp	Ala
		35					40					45			
Phe	Gly	Lys	Tyr	Thr	His	Phe	Ala	Asp	Ala	Ser	Arg	Leu	Arg	Thr	Trp
	50					55					60				
Ile	Glu	Thr	Gly	Lys	Val	His	Pro	Val	Pro	Ala	Ser	Ala	Leu	Ala	Tyr
65					70					75					80
Lys	Lys	His	Lys	Ala	Glu	Gln	Met	Ala	Thr	Ala	Gln	Asn	Asp		
				85					90					95	

<210> 7296

<211> 797

<212> PRT

<213> Enterobacter cloacae

<400> 7296

Pro	Cys	Lys	Val	Phe	Arg	Leu	Cys	Gly	Thr	Leu	Arg	Phe	Ser	His	Gly
1				5					10					15	
Leu	Ala	Gly	Cys	Phe	Pro	Arg	Leu	Leu	Met	Arg	Glu	Asn	Asn	Asn	Met
			20					25					30		
Lys	Trp	Leu	Cys	Ser	Val	Gly	Val	Ala	Val	Ser	Leu	Ala	Leu	Gln	Pro
		35					40					45			
Ala	Leu	Ala	Glu	Asp	Leu	Phe	Gly	Asn	His	Pro	Leu	Thr	Pro	Glu	Ala
	50					55					60				
Arg	Asp	Ala	Phe	Val	Thr	Asp	Leu	Leu	Lys	Lys	Met	Thr	Val	Asp	Glu
65					70					75					80
Lys	Ile	Gly	Gln	Leu	Arg	Leu	Ile	Ser	Val	Gly	Pro	Asp	Asn	Pro	Lys
			85						90					95	
Glu	Ala	Ile	Arg	Glu	Met	Ile	Lys	Asp	Gly	Gln	Val	Gly	Ala	Ile	Phe
			100					105					110		
Asn	Thr	Val	Thr	Arg	Gln	Asp	Ile	Arg	Lys	Met	Gln	Asp	Gln	Val	Met
		115					120					125			
Glu	Leu	Ser	Arg	Leu	Lys	Ile	Pro	Leu	Phe	Phe	Ala	Tyr	Asp	Val	Val
	130					135					140				
His	Gly	Gln	Arg	Thr	Val	Phe	Pro	Ile	Ser	Leu	Gly	Leu	Ala	Ser	Ser
145					150					155					160
Phe	Asn	Leu	Asp	Ala	Val	Lys	Thr	Val	Gly	Arg	Val	Ser	Ala	Tyr	Glu
				165					170						175
Ala	Ala	Asp	Asp	Gly	Leu	Asn	Met	Thr	Trp	Ala	Pro	Met	Val	Asp	Val
		180						185					190		
Ser	Arg	Asp	Pro	Arg	Trp	Gly	Arg	Ala	Ser	Glu	Gly	Phe	Gly	Glu	Asp
		195				200						205			
Thr	Tyr	Leu	Thr	Ala	Thr	Met	Gly	Lys	Thr	Met	Val	Glu	Ala	Met	Gln
	210					215					220				
Gly	Lys	Ser	Pro	Ala	Asp	Arg	Tyr	Ser	Val	Met	Thr	Ser	Val	Lys	His
225					230					235					240
Phe	Ala	Ala	Tyr	Gly	Ala	Val	Glu	Gly	Gly	Lys	Glu	Tyr	Asn	Thr	Val
				245					250					255	
Asp	Met	Ser	Pro	Gln	Arg	Leu	Phe	Asn	Asp	Tyr	Met	Pro	Pro	Tyr	Lys
			260					265					270		
Ala	Gly	Leu	Asp	Ala	Gly	Ser	Gly	Ala	Val	Met	Val	Ala	Leu	Asn	Ser
		275					280					285			
Leu	Asn	Gly	Thr	Pro	Ala	Thr	Ser	Asp	Ser	Trp	Leu	Leu	Lys	Asp	Val
	290					295					300				
Leu	Arg	Asp	Gln	Trp	Gly	Phe	Lys	Gly	Ile	Thr	Val	Ser	Asp	His	Gly
305					310					315					320
Ala	Ile	Lys	Glu	Leu	Ile	Lys	His	Gly	Thr	Ala	Ser	Asp	Pro	Glu	Asp
				325					330					335	
Ala	Val	Arg	Val	Ala	Leu	Lys	Ser	Gly	Ile	Asn	Met	Ser	Met	Ser	Asp
			340					345					350		

Glu	Tyr	Tyr	Ser	Lys	Tyr	Leu	Pro	Gly	Leu	Val	Lys	Ser	Gly	Lys	Val
		355					360					365			
Thr	Met	Ala	Glu	Leu	Asp	Asp	Ala	Ala	Arg	His	Val	Leu	Asn	Val	Lys
	370					375					380				
Tyr	Asp	Met	Gly	Leu	Phe	Asn	Asp	Pro	Tyr	Ser	His	Leu	Gly	Pro	Lys
385					390					395					400
Asp	Ser	Asp	Pro	Ala	Asp	Thr	Asn	Ala	Glu	Ser	Arg	Leu	His	Arg	Lys
				405					410					415	
Glu	Ala	Arg	Glu	Val	Ala	Arg	Glu	Ser	Leu	Val	Leu	Leu	Lys	Asn	Arg
			420					425					430		
Leu	Asp	Thr	Leu	Pro	Leu	Lys	Lys	Ser	Gly	Thr	Ile	Ala	Val	Val	Gly
		435					440					445			
Pro	Leu	Ala	Asp	Ser	Lys	Arg	Asp	Val	Met	Gly	Ser	Trp	Ser	Ala	Ala
	450					455					460				
Gly	Val	Ala	Asp	Gln	Ser	Val	Thr	Val	Leu	Thr	Gly	Ile	Lys	Ser	Ala
465					470					475					480
Val	Gly	Asp	Asn	Ala	Lys	Val	Val	Tyr	Ala	Lys	Gly	Ala	Asn	Val	Thr
				485					490					495	
Asp	Asp	Lys	Asp	Ile	Val	Thr	Phe	Leu	Asn	Gln	Tyr	Glu	Glu	Ala	Val
			500					505					510		
Lys	Val	Asp	Ala	Arg	Thr	Pro	Lys	Glu	Met	Leu	Asp	Glu	Ala	Val	Asn
		515					520					525			
Ala	Ala	Lys	Gln	Ser	Asp	Val	Val	Val	Ala	Val	Val	Gly	Glu	Ala	Gln
	530					535					540				
Gly	Met	Ala	His	Glu	Ala	Ser	Ser	Arg	Thr	Asp	Ile	Thr	Ile	Pro	Gln
545					550					555					560
Ser	Gln	Arg	Asp	Leu	Ile	Ala	Ala	Leu	Lys	Ala	Thr	Gly	Lys	Pro	Leu
				565					570					575	
Val	Leu	Val	Leu	Met	Asn	Gly	Arg	Pro	Leu	Ala	Leu	Val	Lys	Glu	Asp
			580					585					590		
Gln	Gln	Ala	Asp	Ala	Ile	Leu	Glu	Thr	Trp	Phe	Ala	Gly	Thr	Glu	Gly
		595					600					605			
Gly	Asn	Ala	Ile	Ala	Asp	Val	Leu	Phe	Gly	Asp	Tyr	Asn	Pro	Ser	Gly
	610					615				620					
Lys	Leu	Pro	Met	Ser	Phe	Pro	Arg	Ser	Val	Gly	Gln	Ile	Pro	Val	Tyr
625					630					635					640
Tyr	Ser	His	Leu	Asn	Thr	Gly	Arg	Pro	Tyr	Asn	Ala	Asp	Lys	Pro	Asn
				645					650					655	
Lys	Tyr	Thr	Ser	Arg	Tyr	Phe	Asp	Glu	Ala	Asn	Gly	Pro	Leu	Tyr	Pro
			660					665					670		
Phe	Gly	Tyr	Gly	Leu	Ser	Tyr	Thr	Thr	Phe	Lys	Val	Ser	Asp	Val	Lys
		675					680					685			
Met	Ser	Ala	Pro	Thr	Leu	Lys	Arg	Asp	Gly	Lys	Val	Thr	Ala	Ser	Val
	690					695					700				
Glu	Val	Thr	Asn	Ser	Gly	Lys	Arg	Glu	Gly	Ala	Thr	Val	Ile	Gln	Met
705					710					715					720
Tyr	Val	Gln	Asp	Val	Thr	Ala	Ser	Met	Ser	Arg	Pro	Val	Lys	Gln	Leu
				725						730				735	
Arg	Gly	Phe	Glu	Lys	Val	Asn	Leu	Lys	Pro	Gly	Glu	Thr	Arg	Thr	Val
			740					745					750		
Ser	Phe	Pro	Ile	Asp	Val	Asn	Ala	Leu	Lys	Phe	Trp	Asn	Gln	Gln	Met
		755					760					765			
Lys	Tyr	Asp	Ala	Glu	Pro	Gly	Lys	Phe	Asn	Val	Phe	Ile	Gly	Val	Asp
	770					775					780				
Ser	Ala	Arg	Val	Asn	Lys	Ala	Glu	Phe	Glu	Leu	Gln				
785					790					795					

<210> 7297

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7297

Arg	Val	Lys	Trp	Val	Arg	Asp	Pro	Leu	Leu	Trp	Leu	Thr	Gly	Leu	Phe
1				5					10					15	
Ile	Ala	Leu	Leu	Tyr	Leu	Met	Pro	His	Ser	Ala	Ala	Leu	Phe	Asn	Ala
			20					25					30		
Leu	Ile	Pro	Gly	Leu	Pro	Arg	Pro	Val	Tyr	Gln	Gln	Glu	Ser	Phe	Val
		35					40					45			
Asn	Leu	Thr	Leu	Ala	His	Phe	Trp	Leu	Val	Ala	Val	Ser	Ser	Val	Ile
	50					55					60				
Ala	Ile	Val	Leu	Gly	Thr	Gly	Ala	Gly	Ile	Ala	Val	Thr	Arg	Pro	Ala
65					70				75						80
Gly	Arg	Glu	Phe	Arg	Pro	Leu	Val	Glu	Thr	Ile	Ala	Ala	Thr	Gly	Gln
				85				90						95	
Thr	Phe	Pro	Pro	Val	Ala	Val	Leu	Ala	Ile	Ala	Val	Pro	Ala	Ile	Gly
			100					105						110	
Phe	Gly	Gln	Glu	Pro	Ala	Ile	Ile	Ala	Leu	Ile	Leu	Tyr	Gly	Val	Leu
	115						120					125			
Pro	Ile	Leu	Gln	Gly	Thr	Leu	Ala	Gly	Ile	Ala	Ala	Val	Pro	Ala	Ser
	130					135					140				
Ala	Leu	Ser	Val	Ala	Glu	Gly	Met	Gly	Met	Ser	Ala	Trp	Gln	Arg	Leu
145					150					155					160
Val	Lys	Val	Glu	Leu	Pro	Leu	Ala	Ala	Pro	Val	Ile	Ile	Ala	Gly	Val
			165					170						175	
Arg	Thr	Ser	Val	Ile	Ile	Asn	Ile	Gly	Thr	Ala	Thr	Ile	Ala	Ser	Thr
			180					185					190		
Val	Gly	Ala	Asn	Thr	Leu	Gly	Thr	Pro	Ile	Ile	Ile	Gly	Leu	Ser	Gly
	195					200						205			
Phe	Asn	Thr	Ala	Tyr	Ile	Ile	Gln	Gly	Ala	Ile	Leu	Val	Ala	Leu	Ala
	210				215						220				
Ala	Ile	Val	Val	Asp	Arg	Leu	Phe	Glu	Arg	Leu	Ala	Gly	Tyr	Leu	Ser
225					230					235					240
Gln	His	Arg	Arg	Glu	Gln										
				245											

<210> 7298

<211> 568

<212> PRT

<213> Enterobacter cloacae

<400> 7298

Asn	Val	Arg	Phe	Val	Ser	Met	Tyr	Glu	Phe	Asn	Leu	Val	Leu	Leu	Leu
1				5					10					15	
Leu	Gln	Gln	Met	Cys	Val	Phe	Leu	Val	Ile	Ala	Trp	Leu	Met	Ser	Lys
		20						25					30		
Thr	Arg	Leu	Phe	Ile	Pro	Leu	Met	Gln	Val	Thr	Val	Arg	Leu	Pro	His
		35					40					45			
Lys	Phe	Leu	Cys	Tyr	Val	Val	Phe	Ser	Ile	Phe	Cys	Ile	Met	Gly	Thr
	50					55					60				
Trp	Phe	Gly	Leu	His	Ile	Glu	Asp	Ser	Ile	Ala	Asn	Thr	Arg	Ala	Ile
65				70						75					80
Gly	Ala	Val	Met	Gly	Gly	Leu	Leu	Gly	Gly	Pro	Val	Val	Gly	Gly	Leu
			85					90						95	
Val	Gly	Leu	Thr	Gly	Gly	Leu	His	Arg	Tyr	Ser	Met	Gly	Gly	Met	Thr
		100					105						110		
Ala	Leu	Ser	Cys	Met	Ile	Ser	Thr	Ile	Val	Glu	Gly	Leu	Gly	Gly	Gly
	115						120					125			
Leu	Val	His	Ser	Tyr	Met	Ile	Lys	Arg	Gly	Arg	Pro	Asp	Lys	Val	Phe
	130					135					140				
Ser	Pro	Phe	Thr	Ala	Gly	Ala	Ile	Thr	Phe	Val	Ala	Glu	Met	Ala	Gln
145					150					155					160

Met Ala Ile Ile Leu Leu Ile Ala Arg Pro Phe Asp Asp Ala Leu His
 165 170 175
 Leu Val Ser Ser Ile Ala Ala Pro Met Met Val Thr Asn Thr Val Gly
 180 185 190
 Ala Ala Leu Phe Met Arg Ile Leu Leu Asp Lys Arg Ala Met Phe Glu
 195 200 205
 Lys Tyr Thr Ser Ala Phe Ser Ala Thr Ala Leu Lys Val Ala Ala Ser
 210 215 220
 Thr Glu Gly Ile Leu Arg Gln Gly Phe Asn Glu Glu Asn Ser Met Lys
 225 230 235 240
 Val Ala Gln Val Leu Tyr Lys Glu Leu Asp Ile Gly Ala Val Ala Ile
 245 250 255
 Thr Asp Arg Glu Lys Leu Leu Ala Phe Thr Gly Thr Gly Asp Asp His
 260 265 270
 His Leu Pro Gly Lys Pro Ile Ser Ser Ala Tyr Thr Leu Arg Ala Ile
 275 280 285
 Glu Thr Gly Glu Val Val Tyr Ala Asp Gly Asn Glu Val Pro Tyr Arg
 290 295 300
 Cys Ser Leu His Pro Gln Cys Lys Leu Gly Ser Thr Leu Val Ile Pro
 305 310 315 320
 Leu Arg Gly Glu Asn Gln Arg Val Met Gly Thr Ile Lys Leu Tyr Glu
 325 330 335
 Ala Lys Asn Arg Leu Phe Ser Ser Ile Asn Arg Thr Leu Gly Glu Gly
 340 345 350
 Ile Ala Gln Leu Leu Ser Ala Gln Ile Leu Ala Gly Gln Tyr Glu Arg
 355 360 365
 Gln Lys Ala Leu Leu Thr Gln Ser Glu Ile Lys Leu Leu His Ala Gln
 370 375 380
 Val Asn Pro His Phe Leu Phe Asn Ala Leu Asn Thr Leu Lys Ala Val
 385 390 395 400
 Ile Arg Arg Asp Ser Asp Gln Ala Ala Gln Leu Val Gln Phe Leu Ser
 405 410 415
 Thr Phe Phe Arg Lys Asn Leu Lys Arg Pro Ser Glu Ile Val Thr Leu
 420 425 430
 Ala Asp Glu Ile Glu His Val Asn Ala Tyr Leu Gln Ile Glu Lys Ala
 435 440 445
 Arg Phe Gln Ser Arg Leu Gln Val Ser Leu Ser Val Pro Asp Glu Leu
 450 455 460
 Ala Tyr Gln His Leu Pro Ala Phe Thr Leu Gln Pro Ile Val Glu Asn
 465 470 475 480
 Ala Ile Lys His Gly Thr Ser Gln Leu Leu Gly Thr Gly Glu Ile Met
 485 490 495
 Ile Ser Ala Ser Arg Phe Asn His His Leu Val Leu Asp Ile Glu Asp
 500 505 510
 Asn Ala Gly Leu Tyr Glu Ala Ser Ala Ser Gly Gly Leu Gly Met Ser
 515 520 525
 Leu Val Asp Lys Arg Leu Arg Ala His Phe Gly Asp Asp Cys Gly Ile
 530 535 540
 Thr Val Ala Cys Glu Pro Asp Arg Tyr Thr Arg Ile Thr Leu Arg Leu
 545 550 555 560
 Pro Leu Glu Glu Asn Ala Cys
 565

<210> 7299

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7299

Gly Cys Lys Thr Asp Thr Leu Arg Ala Ile Ala Ser Ser Thr Phe Glu
 1 5 10 15

Gly Ser Met Leu Ser Asn Asp Ile Leu Arg Ser Leu Arg Tyr Thr Leu
 20 25 30
 Lys Ala Asn Asn Asn Asp Met Val Arg Ile Leu Ala Leu Ser Asp Met
 35 40 45
 Glu Ser Thr Ser Ala Gly Phe Asp Thr Trp Met Thr Lys Glu Asp Glu
 50 55 60
 Glu Gly Phe Val Arg Cys Pro Asp Ile Ile Leu Ser Gly Phe Leu Asn
 65 70 75 80
 Gly Leu Ile Tyr Asp Lys Arg Gly Lys Asp Glu Ser Ala Pro Glu Leu
 85 90 95
 Ala Leu Glu Arg Arg Val Asn Asn Asn Thr Val Leu Lys Lys Leu Arg
 100 105 110
 Ile Ala Phe Cys Leu Lys Thr Asp Asp Ile Leu Ala Ile Met Thr Glu
 115 120 125
 Gln Lys Phe Arg Val Ser Met Pro Glu Ile Thr Ala Met Met Arg Ala
 130 135 140
 Pro Asp His Lys Asn Tyr Arg Glu Cys Gly Asp Gln Phe Leu Arg Tyr
 145 150 155 160
 Phe Leu Arg Gly Leu Thr Gln Arg Val His Asn Gln Lys Gly
 165 170 175

<210> 7300

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 7300

Ala Phe Ser Gln Arg Gly Cys Cys Gln Pro Arg Gly Glu Asp Val Tyr
 1 5 10 15
 Phe His Ser Leu Phe Trp Pro Ala Met Leu Glu Gly Ser Asn Phe Arg
 20 25 30
 Lys Pro Thr Asn Leu Phe Val His Gly Tyr Val Thr Val Asn Gly Ala
 35 40 45
 Lys Met Ser Lys Ser Arg Gly Thr Phe Ile Lys Ala Ser Thr Trp Leu
 50 55 60
 Asn His Phe Asp Ala Asp Ser Leu Arg Tyr Tyr Tyr Thr Ala Lys Leu
 65 70 75 80
 Ser Ser Arg Ile Asp Asp Ile Asp Leu Asn Leu Glu Asp Phe Val Gln
 85 90 95
 Arg Val Asn Ala Asp Ile Val Asn Lys Val Val Asn Leu Ala Ser Arg
 100 105 110
 Asn Ala Gly Phe Ile Ala Lys Arg Phe Asp Gly Val Leu Ser Ala Glu
 115 120 125
 Leu Ala Asp Pro Glu Leu Tyr Lys Thr Phe Thr Asp Ala Ala Ala Ala
 130 135 140
 Val Gly Glu Ala Trp Glu Ser Arg Glu Phe Gly Lys Ala Ile Arg Glu
 145 150 155 160
 Ile Met Ala Leu Ala Asp Val Ala Asn Arg Tyr Val Asp Glu Gln Ala
 165 170 175
 Pro Trp Val Val Ala Lys Gln Glu Gly Arg Asp Ala Asp Leu Gln Ala
 180 185 190
 Ile Cys Thr Met Gly Leu Asn Met Phe Arg Val Leu Met Thr Trp Leu
 195 200 205
 Lys Pro Val Leu Pro Gln Leu Ala Ala Arg Ala Glu Ala Phe Leu Asn
 210 215 220
 Thr Glu Leu Thr Trp Asp Ala Ile Gln Gln Pro Leu Leu Gly His Lys
 225 230 235 240
 Val Asn Thr Phe Lys Ala Leu Tyr Asn Arg Ile Glu Met Lys Gln Val
 245 250 255
 Glu Ala Leu Val Glu Ala Ser Lys Glu Glu Val Lys Ala Ala Ala Ala
 260 265 270

Pro Val Thr Gly Pro Leu Ala Asp Asp Pro Ile Gln Glu Thr Ile Thr
 275 280 285
 Phe Asp Asp Phe Ala Lys Val Asp Leu Arg Val Ala Leu Ile Glu Asn
 290 295 300
 Ala Glu Phe Val Glu Gly Ser Asp Lys Leu Leu Arg Leu Thr Leu Asp
 305 310 315 320
 Leu Gly Gly Glu Lys Arg Asn Val Phe Ser Gly Ile Arg Ser Ala Tyr
 325 330 335
 Pro Asp Pro Gln Val Leu Ile Gly Arg Gln Thr Val Met Val Ala Asn
 340 345 350
 Leu Ala Pro Arg Lys Met Arg Phe Gly Ile Ser Glu Gly Met Val Met
 355 360 365
 Ala Ala Gly Pro Gly Gly Lys Asp Ile Phe Leu Leu Ser Pro Asp Glu
 370 375 380
 Gly Ala Lys Pro Gly Gln Gln Val Lys
 385 390

<210> 7301

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7301

Phe Val Gln Lys Arg Ile Lys Ser Ser Trp Phe Arg Lys Val Gly Leu
 1 5 10 15
 Gln Leu Ser Trp Gly Arg Ala Ser Leu Gly Ala Lys Met Ala Leu Tyr
 20 25 30
 Thr Ile Gly Glu Val Ala Leu Leu Cys Asp Ile Asn Pro Val Thr Leu
 35 40 45
 Arg Ala Trp Gln Arg Arg Tyr Gly Leu Leu Lys Pro Gln Arg Thr Asp
 50 55 60
 Gly Gly His Arg Leu Phe Asn Asp Ala Asp Ile Asp Arg Ile Arg Glu
 65 70 75 80
 Ile Lys Ser Trp Ile Asp Asn Gly Val Gln Val Gly Lys Val Lys Ser
 85 90 95
 Leu Leu Ser Gln Tyr Asp Pro Asp Thr Gln His Leu Trp Arg Glu Gln
 100 105 110
 Gln Glu Thr Leu Leu Arg Leu Leu Gln Ser Gly Asn Leu Gln Arg Leu
 115 120 125
 Arg Gly Trp Ile Lys Glu Gln Gly Arg Asp Tyr Pro Ala Gln Thr Leu
 130 135 140
 Ile Thr His Leu Phe Ile Pro Leu Arg Arg Arg Leu Gln Cys Gln Gln
 145 150 155 160
 Thr Thr Leu Gln Ala Leu Leu Ser Met Leu Asp Gly Val Leu Ile Asn
 165 170 175
 Tyr Ile Ser Val Cys Leu Ala Ser Ala Arg Asn Lys Asn Ser Lys Asp
 180 185 190
 Ala Leu Val Ile Gly Trp Asn Val His Asp Thr Thr Arg Leu Trp Leu
 195 200 205
 Glu Ala Trp Ile Ala Thr Gln Gln Gly Trp Arg Val Asp Val Leu Ala
 210 215 220
 His Ser Leu Ala Gln Leu Arg Pro Glu Leu Phe Glu Gly Gln Thr Leu
 225 230 235 240
 Leu Val Trp Cys Gly Glu Val Pro Ser Ala Ser Gln Gln Gln Leu Leu
 245 250 255
 Thr Glu Trp Arg Glu His Gly Tyr Pro Val Tyr Ser Leu Gly Pro Asn
 260 265 270
 Ala Ser
 275

<210> 7302

<211> 641
 <212> PRT
 <213> Enterobacter cloacae

<400> 7302

Pro	Arg	Glu	Ala	Pro	Gly	Gln	Thr	Val	Arg	Lys	Ala	Gln	Cys	Ala	Thr
1				5					10					15	
Lys	Pro	Glu	Asn	Leu	Ala	Gly	Leu	Phe	Ser	Asp	Phe	Ser	His	Glu	Tyr
			20					25					30		
Pro	Thr	Ala	Gln	Arg	Leu	Ile	Ala	Leu	Cys	Phe	Thr	Ala	Arg	Asn	Leu
		35					40					45			
Pro	His	His	Lys	Glu	Trp	Lys	Met	Ser	Ser	Val	Arg	Thr	Asp	Asp	Asn
	50					55					60				
Thr	Thr	Phe	Ile	Asn	Glu	Leu	Ser	Arg	Leu	Val	Gly	His	Ser	His	Leu
65					70					75					80
Leu	Thr	Asp	Pro	Ala	Lys	Thr	Ala	Arg	Tyr	Arg	Lys	Gly	Phe	Arg	Ser
				85					90					95	
Gly	Gln	Gly	Glu	Ala	Leu	Ala	Val	Val	Phe	Pro	Gly	Thr	Leu	Leu	Glu
			100					105					110		
Leu	Trp	Arg	Val	Leu	Ser	Ala	Cys	Val	Ala	Ala	Asp	Lys	Ile	Ile	Leu
		115					120					125			
Met	Gln	Ala	Ala	Asn	Thr	Gly	Leu	Thr	Glu	Gly	Ser	Thr	Pro	Asn	Gly
	130					135					140				
Asn	Asp	Tyr	Asp	Arg	Asp	Ile	Val	Ile	Ile	Ser	Thr	Leu	Arg	Leu	Asp
145					150					155					160
Lys	Leu	His	Leu	Leu	Asp	Lys	Gly	Glu	Gln	Val	Leu	Ala	Phe	Pro	Gly
				165					170					175	
Thr	Thr	Leu	Tyr	Ser	Leu	Glu	Lys	Ala	Leu	Lys	Pro	Leu	Gly	Arg	Glu
			180					185					190		
Pro	His	Ser	Val	Ile	Gly	Ser	Ser	Cys	Ile	Gly	Ala	Ser	Val	Ile	Gly
		195					200						205		
Gly	Ile	Cys	Asn	Asn	Ser	Gly	Gly	Ser	Leu	Val	Gln	Arg	Gly	Pro	Ala
	210					215					220				
Tyr	Thr	Glu	Met	Ser	Leu	Phe	Ala	Arg	Ile	Asp	Glu	Asn	Gly	Lys	Leu
225					230					235					240
Thr	Leu	Val	Asn	His	Leu	Gly	Ile	Asp	Leu	Gly	Val	Thr	Pro	Glu	Gln
				245					250					255	
Ile	Leu	Ser	Lys	Leu	Asp	Asp	Asp	Arg	Val	Lys	Asp	Glu	Asp	Val	Gln
			260					265					270		
His	Asp	Gly	Arg	His	Ala	His	Asp	His	Asp	Tyr	Ile	Thr	Arg	Val	Arg
		275					280					285			
Asp	Ile	Asn	Ala	Asp	Thr	Pro	Ala	Arg	Tyr	Asn	Ala	Asp	Pro	Asp	Arg
	290					295					300				
Leu	Phe	Glu	Ser	Ser	Gly	Cys	Ala	Gly	Lys	Leu	Ala	Val	Phe	Ala	Val
305					310					315					320
Arg	Leu	Asp	Thr	Phe	Pro	Ala	Glu	Lys	Lys	Gln	Gln	Val	Phe	Tyr	Ile
				325					330					335	
Gly	Thr	Asn	Gln	Pro	Glu	Val	Leu	Thr	Glu	Ile	Arg	Arg	His	Ile	Leu
			340					345					350		
Ala	Glu	Phe	Thr	His	Leu	Pro	Val	Ala	Gly	Glu	Tyr	Met	His	Arg	Asp
		355					360					365			
Ile	Tyr	Asp	Ile	Ala	Glu	Arg	Tyr	Gly	Lys	Asp	Thr	Phe	Leu	Met	Ile
	370					375					380				
Asp	Lys	Leu	Gly	Thr	Asp	Lys	Met	Pro	Phe	Phe	Phe	Thr	Met	Lys	Gly
385					390					395					400
Arg	Thr	Asp	Ala	Met	Leu	Glu	Lys	Val	Ser	Leu	Phe	Lys	Pro	His	Phe
				405					410					415	
Thr	Asp	Arg	Phe	Met	Gln	Lys	Leu	Gly	Asn	Val	Phe	Pro	Ala	His	Leu
			420					425					430		
Pro	Glu	Arg	Met	Lys	Thr	Trp	Arg	Asp	Lys	Tyr	Glu	His	His	Leu	Leu
		435					440					445			

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<210> 7303
<211> 212
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7304
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7304

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Asn Asp Val Glu Ser Ala Asp Gly Asp Ile His Arg Cys Asn Ile Arg
1      5      10      15
Arg Thr Ile Arg Ser Leu Val Thr Gly Asp Arg Val Val Trp Arg Pro
      20      25      30
Gly Lys Glu Ala Ala Glu Gly Val Thr Val Lys Gly Ile Val Glu Ala
      35      40      45
Val His Glu Arg Thr Ser Val Leu Thr Arg Pro Asp Phe Tyr Asp Gly
      50      55      60
Val Lys Pro Ile Ala Ala Asn Ile Asn Gln Ile Val Ile Val Ser Ala
65      70      75      80
Ile Leu Pro Glu Leu Ser Leu Asn Ile Ile Asp Arg Tyr Leu Val Ala
      85      90      95
Cys Glu Thr Leu Gln Val Glu Pro Leu Ile Val Leu Asn Lys Ile Asp
      100     105     110
Leu Leu Asp Asp Glu Ala Met Ala Phe Val Asn Glu Gln Met Asp Ile
      115     120     125
Tyr Arg Asn Ile Gly Tyr Arg Val Leu Met Val Ser Ser Arg Thr Lys
      130     135     140
Asp Gly Leu Lys Pro Leu Glu Asp Ala Leu Thr Asn Arg Ile Ser Ile
145     150     155     160
Phe Ala Gly Gln Ser Gly Val Gly Lys Ser Ser Leu Leu Asn Asn Leu
      165     170     175
Leu Gly Leu Gln Gln Glu Ile Leu Thr Asn Asp Val Ser Asp Val Ser
      180     185     190
Gly Leu Gly Gln His Thr Thr Thr Ala Ser Arg Leu Tyr His Phe Pro
      195     200     205
His Gly Gly Asp Val Ile Asp Ser Pro Gly Val Arg Glu Phe Gly Leu
      210     215     220
Trp His Leu Glu Pro Glu Gln Ile Phe Asn Gly Phe Val Glu Phe His
225     230     235     240
Asp Tyr Leu Gly Ala Cys Lys Tyr Arg Asp Cys Lys His Asp Asn Asp
      245     250     255
Pro Gly Cys Ala Ile Arg Glu Ala Val Glu Asn Gly Glu Ile Ala Glu
      260     265     270
Thr Arg Phe Glu Asn Tyr His Arg Ile Leu Glu Ser Met Asp Gln Val
      275     280     285
Lys Thr Arg Lys Asn Phe Ser Asp Ser Asp Asn
      290     295     300

```

<210> 7305
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 7305

```

Asn His Ala Lys Glu Cys Met Met Thr Thr Lys Arg Lys Ala Tyr Val
1      5      10      15
Arg Pro Met Pro Ser Thr Trp Trp Lys Lys Leu Pro Phe Tyr Arg Phe
      20      25      30
Tyr Met Leu Arg Glu Gly Thr Ala Phe Pro Ala Val Trp Phe Ser Leu
      35      40      45
Glu Leu Met Tyr Gly Val Tyr Ala Leu Lys His Gly Pro Glu Ala Trp
      50      55      60
Ala Ser Phe Val Gly Phe Leu Gln Asn Pro Ile Ile Val Val Leu Asn

```

65				70					75					80
Leu	Ile	Val	Leu	Ala	Ala	Leu	Leu	His	Thr	Lys	Thr	Trp	Phe	Glu
				85				90					95	
Leu	Ala	Pro	Lys	Ala	Ala	Asn	Ile	Ile	Val	Lys	Gly	Glu	Lys	Met
			100					105					110	
Pro	Glu	Pro	Val	Ile	Lys	Gly	Leu	Trp	Ala	Val	Thr	Ala	Val	Ser
		115					120					125		
Val	Val	Ile	Leu	Phe	Val	Ala	Leu	Phe	Trp					
	130						135							

<210> 7306

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7306

Gln	Leu	Met	Leu	Asn	Leu	Thr	Val	Cys	Gln	Ala	Gln	Ser	Asn	Pro	Thr
1				5					10					15	
Asp	Tyr	Ala	Cys	Leu	Met	Gly	Pro	Asp	Thr	Pro	Leu	Thr	Arg	Tyr	Tyr
			20					25					30		
Gly	Arg	Leu	Leu	Met	Met	Lys	Lys	Ser	Leu	Cys	Cys	Ala	Leu	Leu	Leu
		35					40					45			
Gly	Leu	Ser	Cys	Ser	Ala	Leu	Ala	Ala	Pro	Val	Ser	Glu	Lys	Gln	Leu
	50					55					60				
Ala	Glu	Val	Val	Ala	Asn	Thr	Val	Thr	Pro	Leu	Met	Lys	Ala	Gln	Ser
65					70					75					80
Val	Pro	Gly	Met	Ala	Val	Ala	Val	Ile	Tyr	Gln	Gly	Lys	Ser	His	Tyr
				85					90					95	
Tyr	Thr	Phe	Gly	Lys	Ala	Asp	Ile	Ala	Ala	Asn	Lys	Pro	Val	Thr	Pro
			100					105					110		
Gln	Thr	Leu	Phe	Glu	Leu	Gly	Ser	Ile	Ser	Lys	Thr	Phe	Thr	Gly	Val
		115					120					125			
Leu	Gly	Gly	Asp	Ala	Ile	Ala	Arg	Gly	Glu	Ile	Ser	Leu	Asp	Asp	Pro
	130					135					140				
Val	Thr	Arg	Tyr	Trp	Pro	Gln	Leu	Thr	Gly	Lys	Gln	Trp	Gln	Gly	Ile
145					150					155					160
Arg	Met	Leu	Asp	Leu	Ala	Thr	Tyr	Thr	Ala	Gly	Gly	Leu	Pro	Leu	Gln
			165						170					175	
Val	Pro	Asp	Glu	Val	Thr	Asp	Asn	Ala	Ser	Leu	Leu	Arg	Phe	Tyr	Gln
		180					185						190		
Asn	Trp	Gln	Pro	Gln	Trp	Lys	Pro	Gly	Thr	Thr	Arg	Leu	Tyr	Ala	Asn
	195						200					205			
Ala	Ser	Ile	Gly	Leu	Phe	Gly	Ala	Leu	Ala	Val	Lys	Pro	Ser	Gly	Met
	210					215					220				
Pro	Tyr	Glu	Gln	Ala	Met	Thr	Thr	Arg	Val	Leu	Lys	Pro	Leu	Lys	Leu
225					230					235					240
Asp	His	Thr	Trp	Ile	Asn	Val	Pro	Lys	Ala	Glu	Glu	Ala	His	Tyr	Ala
				245					250					255	
Trp	Gly	Tyr	Arg	Asp	Gly	Lys	Ala	Val	Arg	Val	Ser	Pro	Gly	Met	Leu
		260					265						270		
Asp	Ala	Gln	Ala	Tyr	Gly	Val	Lys	Thr	Asn	Val	Gln	Asp	Met	Ala	Asn
	275						280					285			
Trp	Val	Met	Ala	Asn	Met	Ala	Pro	Glu	Lys	Val	Ala	Asp	Ala	Ser	Leu
	290					295					300				
Lys	Gln	Gly	Ile	Ala	Leu	Ala	Gln	Ser	Arg	Tyr	Trp	Arg	Ile	Gly	Ser
305					310					315					320
Met	Tyr	Gln	Gly	Leu	Gly	Trp	Glu	Met	Leu	Asn	Trp	Pro	Val	Glu	Ala
				325					330					335	
Asn	Thr	Val	Val	Glu	Gly	Ser	Asp	Ser	Lys	Val	Ala	Leu	Ala	Pro	Leu
		340						345					350		
Pro	Ala	Ala	Glu	Val	Asn	Pro	Pro	Ala	Pro	Pro	Val	Lys	Ala	Ser	Trp

	355		360		365										
Val	His	Lys	Thr	Gly	Ser	Thr	Gly	Gly	Phe	Gly	Ser	Tyr	Val	Ala	Phe
	370					375					380				
Ile	Pro	Glu	Lys	Gln	Ile	Gly	Ile	Val	Met	Leu	Ala	Asn	Lys	Ser	Tyr
385					390					395					400
Pro	Asn	Pro	Ala	Arg	Val	Glu	Ala	Ala	Tyr	His	Ile	Leu	Glu	Ala	Leu
				405					410					415	
Gln															

<210> 7307

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 7307

Asn	Arg	Pro	Leu	Phe	Ser	Gly	Ser	Gly	Ser	Val	Met	Pro	Asp	Gln	Glu
1				5					10					15	
Arg	Gln	Asn	Asn	Gly	Leu	Glu	Ala	Thr	Leu	Leu	Asn	Ser	Phe	Lys	Leu
		20						25					30		
Ser	Leu	Gln	Tyr	Ile	Leu	Pro	Lys	Leu	Trp	Leu	Thr	Arg	Leu	Ala	Gly
		35					40					45			
Trp	Gly	Ala	Ser	Lys	Arg	Ala	Gly	Trp	Leu	Thr	Lys	Leu	Val	Ile	Asp
	50					55					60				
Leu	Phe	Val	Lys	Tyr	Tyr	Lys	Val	Asp	Met	Lys	Glu	Ala	Gln	Lys	Pro
65				70					75					80	
Asp	Thr	Ala	Ser	Tyr	Arg	Thr	Phe	Asn	Glu	Phe	Phe	Val	Arg	Pro	Leu
				85					90					95	
Arg	Asp	Glu	Val	Arg	Pro	Leu	Asn	Thr	Asp	Pro	Asn	Val	Leu	Val	Met
		100						105					110		
Pro	Ala	Asp	Gly	Val	Ile	Ser	Gln	Leu	Gly	Lys	Ile	Glu	Asn	Asp	Lys
		115					120					125			
Ile	Leu	Gln	Ala	Lys	Gly	His	Asn	Tyr	Ser	Leu	Glu	Ala	Leu	Leu	Ala
	130					135					140				
Gly	Asn	Tyr	Ile	Met	Ala	Asp	Leu	Phe	Arg	Asn	Gly	Thr	Phe	Ala	Thr
145				150					155					160	
Thr	Tyr	Leu	Ser	Pro	Arg	Asp	Tyr	His	Arg	Val	His	Met	Pro	Cys	Asn
			165						170					175	
Gly	Ile	Leu	Arg	Glu	Met	Ile	Tyr	Val	Pro	Gly	Asp	Leu	Phe	Ser	Val
		180						185					190		
Asn	His	Leu	Thr	Ala	Gln	Asn	Val	Pro	Asn	Leu	Phe	Ala	Arg	Asn	Glu
		195				200					205				
Arg	Val	Ile	Cys	Leu	Phe	Asp	Thr	Glu	Phe	Gly	Pro	Met	Ala	Gln	Ile
	210					215				220					
Leu	Val	Gly	Ala	Thr	Ile	Val	Gly	Ser	Ile	Glu	Thr	Val	Trp	Ala	Gly
225					230				235						240
Thr	Ile	Thr	Pro	Pro	Arg	Glu	Gly	Val	Ile	Lys	Arg	Trp	Thr	Trp	Pro
			245						250					255	
Ala	Gly	Glu	Glu	Gly	Ser	Val	Ala	Leu	Leu	Lys	Gly	Gln	Glu	Met	
		260					265					270			
Gly	Arg	Phe	Lys	Leu	Gly	Ser	Thr	Val	Ile	Asn	Leu	Phe	Ala	Pro	Gly
		275					280					285			
Lys	Val	Asn	Leu	Val	Asp	Glu	Leu	Glu	Ser	Leu	Ser	Val	Thr	Lys	Leu
	290				295					300					
Gly	Gln	Pro	Leu	Ala	Val	Ser	Thr	Glu	Val	Phe	Ala	Thr	Pro	Asp	Val
305					310					315					320
Ala	Pro	Ala	Pro	Leu	Pro	Glu	Asp	Glu	Ile	Lys	Ala	Glu	His	Asp	Ala
				325					330					335	
Ser	Pro	Leu	Val	Asp	Asp	Lys	Lys	Asp	Glu	Gly					
			340					345							

<210> 7308
 <211> 614
 <212> PRT
 <213> Enterobacter cloacae

<400> 7308

Thr	Ser	Phe	Ser	Ser	Ser	Arg	Cys	Gly	Lys	Thr	Lys	Ile	Trp	Arg	Asn
1			5						10					15	
Val	Val	Gln	Thr	Phe	Gln	Ala	Asp	Leu	Ala	Val	Ile	Gly	Ala	Gly	Gly
		20						25					30		
Ala	Gly	Leu	Arg	Ala	Ala	Ile	Ala	Ala	Ala	Gln	Ala	Asn	Pro	Asn	Ala
		35					40					45			
Lys	Ile	Ala	Leu	Ile	Ser	Lys	Val	Tyr	Pro	Met	Arg	Ser	His	Thr	Val
	50					55					60				
Ala	Ala	Glu	Gly	Gly	Ser	Ala	Ala	Val	Ala	Gln	Asp	His	Asp	Ser	Phe
65					70					75					80
Glu	Tyr	His	Phe	His	Asp	Thr	Val	Ala	Gly	Gly	Asp	Trp	Leu	Cys	Glu
				85					90					95	
Gln	Asp	Val	Val	Asp	Tyr	Phe	Val	His	His	Cys	Pro	Thr	Glu	Met	Thr
			100					105					110		
Gln	Leu	Glu	Gln	Trp	Gly	Cys	Pro	Trp	Ser	Arg	Arg	Pro	Asp	Gly	Ser
		115					120					125			
Val	Asn	Val	Arg	Arg	Phe	Gly	Gly	Met	Lys	Ile	Glu	Arg	Thr	Trp	Phe
	130					135					140				
Ala	Ala	Asp	Lys	Thr	Gly	Phe	His	Met	Leu	His	Thr	Leu	Phe	Gln	Thr
145					150					155					160
Ser	Leu	Gln	Phe	Pro	Gln	Ile	Gln	Arg	Phe	Asp	Glu	His	Phe	Val	Leu
				165					170					175	
Asp	Ile	Leu	Val	Asp	Asp	Gly	His	Ala	Arg	Gly	Leu	Val	Ala	Met	Asn
			180					185						190	
Met	Met	Glu	Gly	Thr	Leu	Val	Gln	Ile	Arg	Ala	Asn	Ala	Val	Val	Met
		195					200					205			
Ala	Thr	Gly	Gly	Ala	Gly	Arg	Val	Tyr	Arg	Tyr	Asn	Thr	Asn	Gly	Gly
	210					215					220				
Ile	Val	Thr	Gly	Asp	Gly	Met	Gly	Met	Ala	Leu	Ser	His	Gly	Val	Pro
225					230					235					240
Leu	Arg	Asp	Met	Glu	Phe	Val	Gln	Tyr	His	Pro	Thr	Gly	Leu	Pro	Gly
				245					250					255	
Ser	Gly	Ile	Leu	Met	Thr	Glu	Gly	Cys	Arg	Gly	Glu	Gly	Gly	Ile	Leu
			260					265					270		
Val	Asn	Lys	Asn	Gly	Tyr	Arg	Tyr	Leu	Gln	Asp	Tyr	Gly	Met	Gly	Pro
		275					280					285			
Glu	Thr	Pro	Leu	Gly	Glu	Pro	Lys	Asn	Lys	Tyr	Met	Glu	Leu	Gly	Pro
	290					295					300				
Arg	Asp	Lys	Val	Ser	Gln	Ala	Phe	Trp	His	Glu	Trp	Arg	Lys	Gly	Asn
305					310					315					320
Thr	Ile	Ser	Thr	Pro	Arg	Gly	Asp	Val	Val	His	Leu	Asp	Leu	Arg	His
				325					330					335	
Leu	Gly	Glu	Lys	Lys	Leu	Leu	Glu	Arg	Leu	Pro	Phe	Ile	Cys	Glu	Leu
			340					345					350		
Ala	Lys	Ala	Tyr	Val	Gly	Val	Asp	Pro	Val	Lys	Glu	Pro	Ile	Pro	Val
		355					360					365			
Arg	Pro	Thr	Ala	His	Tyr	Thr	Met	Gly	Gly	Ile	Glu	Thr	Asp	Gln	Gln
	370					375					380				
Cys	Glu	Thr	Arg	Ile	Lys	Gly	Leu	Phe	Ala	Val	Gly	Glu	Cys	Ser	Ser
385					390					395					400
Val	Gly	Leu	His	Gly	Ala	Asn	Arg	Leu	Gly	Ser	Asn	Ser	Leu	Ala	Glu
				405					410					415	
Leu	Val	Val	Phe	Gly	Arg	Met	Ala	Gly	Glu	Arg	Ala	Val	Glu	Arg	Ala
			420					425					430		
Ala	Thr	Ala	Gly	Glu	Ala	Asn	Ser	Ala	Ala	Leu	Asp	Ala	Gln	Val	Val

435	440	445
Asp Val Glu Lys Arg Leu Lys	Asp Leu Val Asn Gln Glu Gly Asn Glu	
450	455	460
Asn Trp Ser Lys Ile Arg Asp	Glu Met Gly Leu Ser Met Glu Glu Gly	
465	470	475
Cys Gly Ile Tyr Arg Thr Pro	Glu Leu Met Gln Lys Thr Val Asp Lys	
485	490	495
Leu Ala Glu Leu Gln Glu Arg Phe	Lys Arg Val Arg Ile Thr Asp Thr	
500	505	510
Ser Ser Val Phe Asn Thr Asp	Leu Leu Tyr Thr Ile Glu Leu Gly His	
515	520	525
Gly Leu Asn Val Ala Glu Cys	Met Ala His Ser Ala Leu Ala Arg Lys	
530	535	540
Glu Ser Arg Gly Ala His Gln	Arg Leu Asp Glu Gly Cys Thr Glu Arg	
545	550	555
Asp Asp Val Asn Phe Leu Lys	His Thr Leu Ala Trp Arg Asp Ala Asp	
565	570	575
Gly Thr Thr Arg Leu Asp Tyr	Ser Asp Val Lys Ile Thr Thr Leu Pro	
580	585	590
Pro Ala Lys Arg Val Tyr Gly	Ala Glu Ala Glu Ala Asp Lys Lys	
595	600	605
Glu Lys Ala Asn Gly		
610		

<210> 7309

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 7309

Gln Gln Leu Ser Leu Trp Ser Phe Cys Leu Ser His Cys Phe Gly Lys	
1 5 10 15	
Glu Thr Thr Val Ile Asn Pro Asn Pro Lys Arg Ser Asp Glu Pro Val	
20 25 30	
Phe Trp Gly Leu Phe Gly Ala Gly Gly Met Trp Ser Ala Ile Ile Ala	
35 40 45	
Pro Val Ile Ile Leu Leu Val Gly Ile Met Leu Pro Leu Gly Leu Phe	
50 55 60	
Pro Gly Asp Ala Leu Ser Tyr Glu Arg Val Leu Ala Phe Ala Ser Ser	
65 70 75 80	
Phe Ile Gly Arg Val Phe Ile Phe Leu Met Ile Val Leu Pro Leu Trp	
85 90 95	
Cys Gly Leu His Arg Ile His His Ala Met His Asp Leu Lys Ile His	
100 105 110	
Val Pro Ser Gly Lys Trp Val Phe Tyr Gly Leu Ala Thr Ile Leu Thr	
115 120 125	
Val Val Thr Leu Ile Ala Val Val Thr Ile	
130 135	

<210> 7310

<211> 1161

<212> PRT

<213> Enterobacter cloacae

<400> 7310

Pro Asn Ser Ala Ser Leu Trp Gln Tyr Arg Arg Arg Ser Leu Gln His	
1 5 10 15	
Gln Thr Leu Arg Gln Pro Arg Cys Arg Lys Met Arg Ser Lys Pro Ser	
20 25 30	
Thr Thr Pro Ala Arg Trp Leu Thr Thr Lys Lys Thr Lys Ala Asn Asn	
35 40 45	

Arg	Arg	Ile	Ala	Asp	Val	Arg	Pro	Ile	Ile	Val	Leu	Leu	Met	Ala	Trp
50						55					60				
Cys	Leu	Ser	Met	Gly	Ala	Tyr	Ala	Ala	Thr	Ala	Pro	Asp	Ala	Lys	Gln
65					70					75					80
Ile	Thr	Gln	Glu	Leu	Glu	Gln	Ala	Lys	Ala	Ala	Lys	Pro	Ala	Gln	Pro
				85					90					95	
Glu	Thr	Val	Glu	Ser	Leu	Gln	Ser	Ala	Leu	Asn	Ala	Leu	Glu	Glu	Arg
			100					105					110		
Lys	Gly	Ser	Leu	Glu	Arg	Ala	Gln	Gln	Tyr	Gln	Gln	Val	Ile	Asp	Asn
	115						120					125			
Phe	Pro	Lys	Leu	Ser	Gln	Thr	Leu	Arg	Ser	Gln	Leu	Asn	Asn	Leu	Arg
	130						135					140			
Asp	Glu	Pro	Arg	Gln	Val	Pro	Ala	Gly	Met	Thr	Ser	Glu	Ala	Leu	Asn
145					150					155					160
Gln	Glu	Ile	Leu	Gln	Val	Ser	Ser	Gln	Leu	Leu	Glu	Lys	Ser	Arg	Leu
				165					170						175
Ala	Gln	Gln	Glu	Gln	Glu	Arg	Ala	Arg	Glu	Ile	Ala	Asp	Ser	Leu	Ser
			180					185						190	
Gln	Leu	Pro	Gln	Gln	Gln	Thr	Asp	Ala	Arg	Arg	Gln	Leu	Asn	Glu	Val
		195					200					205			
Glu	Arg	Arg	Ile	Gly	Thr	Gln	Thr	Gly	Ser	Thr	Pro	Gln	Asn	Gln	Ala
	210					215					220				
Gln	Asn	Leu	Gly	Leu	Gln	Ala	Glu	Ser	Ala	Arg	Leu	Lys	Ala	Leu	Val
225					230					235					240
Asp	Glu	Leu	Glu	Leu	Ala	Gln	Leu	Ser	Ala	Asn	Asn	Arg	Gln	Glu	Leu
				245					250						255
Ser	Arg	Met	Arg	Ser	Glu	Leu	Ala	Gln	Lys	Gln	Ser	Gln	Gln	Leu	Asp
		260						265						270	
Ala	Tyr	Leu	Gln	Ala	Leu	Arg	Asn	Gln	Leu	Asn	Ser	Gln	Arg	Gln	Arg
		275					280					285			
Glu	Ala	Glu	Arg	Ala	Leu	Glu	Ser	Thr	Glu	Leu	Leu	Ala	Glu	Asn	Ser
	290					295					300				
Ala	Asn	Leu	Pro	Asp	Ser	Ile	Val	Ala	Gln	Phe	Lys	Val	Asn	Arg	Glu
305					310					315					320
Leu	Ser	Ala	Ala	Leu	Asn	Gln	Gln	Ala	Gln	Arg	Met	Asp	Leu	Val	Ala
				325					330						335
Ser	Gln	Gln	Arg	Gln	Ala	Thr	Asn	Gln	Thr	Leu	Gln	Val	Arg	Gln	Ala
			340					345					350		
Leu	Asn	Thr	Leu	Arg	Glu	Gln	Ser	Gln	Trp	Leu	Gly	Ser	Ser	Asn	Leu
		355					360					365			
Leu	Gly	Glu	Ala	Leu	Arg	Ala	Gln	Val	Ala	Arg	Leu	Pro	Glu	Met	Pro
	370					375					380				
Lys	Pro	Gln	Gln	Leu	Asp	Thr	Glu	Met	Ala	Gln	Leu	Arg	Val	Gln	Arg
385					390					395					400
Leu	His	Tyr	Glu	Asp	Leu	Leu	Asn	Lys	Gln	Pro	Gln	Ile	Arg	Gln	Ile
				405					410						415
Arg	Gln	Ala	Asp	Gly	Gln	Pro	Leu	Thr	Gly	Glu	Gln	Ser	Arg	Ile	Leu
			420					425						430	
Glu	Ala	Gln	Leu	Arg	Thr	Gln	Arg	Glu	Leu	Leu	Asn	Ser	Leu	Leu	Gln
		435					440					445			
Gly	Gly	Asp	Thr	Leu	Ile	Leu	Glu	Leu	Thr	Lys	Leu	Lys	Val	Ser	Asn
	450					455					460				
Ser	Gln	Leu	Glu	Asp	Ala	Leu	Lys	Glu	Val	Asn	Glu	Ala	Thr	His	Arg
465					470					475					480
Tyr	Leu	Phe	Trp	Thr	Ser	Asp	Val	Arg	Pro	Met	Thr	Phe	Ala	Trp	Pro
				485					490					495	
Ile	Glu	Ile	Val	Gln	Asp	Leu	Arg	Arg	Leu	Ile	Ser	Leu	Asp	Thr	Phe
			500					505					510		
Ser	Gln	Leu	Gly	Leu	Ala	Ser	Val	Met	Met	Ile	Thr	Ser	Lys	Glu	Thr
		515					520					525			
Ile	Phe	Pro	Leu	Leu	Gly	Ala	Leu	Ile	Leu	Val	Gly	Phe	Ser	Ile	Tyr

530	535	540
Ser Arg Arg His Phe Thr	Arg Phe Leu Glu Arg	Ser Ser Ala Arg Val
545	550	555
Gly Lys Val Thr Gln	Asp His Phe Trp Leu Thr	Leu Arg Thr Val Phe
	565	570
Trp Ser Ile Leu Val Ala	Ser Pro Leu Pro Val	Leu Trp Met Thr Leu
	580	585
Gly Tyr Gly Leu Arg Glu	Ala Trp Pro Tyr Pro	Leu Ala Val Ala Ile
	595	600
Gly Asp Gly Val Thr Ala	Thr Val Pro Leu Leu	Trp Val Val Met Ile
	610	615
Cys Ala Thr Phe Ala Arg	Pro Asn Gly Leu Phe	Ile Ala His Phe Gly
625	630	635
Trp Pro Arg Asn Arg Val	Ala Arg Ala Met Arg	Tyr Tyr Leu Met Ser
	645	650
Ile Gly Leu Ile Val Pro	Leu Ile Met Ala Leu	Ile Met Phe Asp Asn
	660	665
Leu Asn Asp Arg Glu Phe	Ser Gly Ser Leu Gly	Arg Leu Cys Phe Met
	675	680
Leu Ile Cys Gly Ala Leu	Ala Val Val Thr Leu	Ser Leu Lys Arg Ala
	690	695
Gly Ile Pro Leu Tyr Leu	Asp Lys Thr Gly Ser	Gly Asp Asn Met Leu
705	710	715
Asn Arg Leu Leu Trp Asn	Leu Leu Leu Ser Ala	Pro Leu Ala Ala Met
	725	730
Leu Ala Ala Ala Val Gly	Tyr Leu Ala Thr Ser	Gln Ala Leu Leu Ala
	740	745
Arg Leu Glu Thr Ser Val	Ala Ile Trp Phe Leu	Leu Leu Val Val Tyr
	755	760
His Val Ile Arg Arg Gly	Met Leu Ile Gln Arg	Arg Arg Leu Ala Phe
	770	775
Asp Arg Ala Lys His Arg	Arg Ala Glu Ile Leu	Ala Gln Arg Ala Arg
785	790	795
Gly Glu Glu Glu Pro Asn	His Val Asn Ser Thr	Glu Gly Thr Thr Asp
	805	810
Ala Asp Asp Val Glu Leu	Asp Leu Asp Ala Ile	Ser Thr Gln Ser Leu
	820	825
Arg Leu Val Arg Ser Ile	Leu Met Leu Val Ala	Leu Leu Ser Val Ile
	835	840
Tyr Leu Trp Ser Glu Ile	His Ser Ala Phe Gly	Phe Leu Glu Asn Ile
	850	855
Ser Leu Trp Asp Val Thr	Ser Thr Val Gln Gly	Val Glu Ser Leu Glu
865	870	875
Pro Ile Thr Leu Gly Ala	Val Leu Ile Ala Ile	Leu Val Leu Ile Ile
	885	890
Thr Thr Gln Leu Ile Arg	Asn Phe Pro Ala Leu	Leu Leu Glu Leu Ala
	900	905
Leu Gln His Leu Asp Leu	Thr Pro Gly Thr Gly	Tyr Ala Ile Thr Thr
	915	920
Ile Thr Lys Tyr Leu Ile	Met Leu Phe Gly Gly	Leu Val Gly Phe Ser
	930	935
Met Ile Gly Ile Glu Trp	Ser Lys Leu Gln Trp	Leu Val Ala Ala Leu
945	950	955
Thr Val Gly Leu Gly Phe	Gly Leu Gln Glu Ile	Phe Ala Asn Phe Val
	965	970
Ser Gly Leu Ile Leu Phe	Glu Lys Pro Ile Arg	Ile Gly Asp Thr
	980	985
Val Thr Ile Arg Asp Leu	Thr Gly Ser Val Thr	Arg Ile Asn Thr Arg
	995	1000
Ala Thr Thr Ile Ser Asp	Trp Asp Arg Lys Glu	Ile Ile Val Pro Asn
1010	1015	1020

Lys Ala Phe Ile Thr Glu Gln Phe Ile Asn Trp Ser Leu Ser Asp Ser
 1025 1030 1035 1040
 Val Thr Arg Val Val Leu Thr Val Pro Ala Pro Ser Asp Ala Asn Ser
 1045 1050 1055
 Glu Glu Val Thr Gln Ile Leu Tyr Thr Ala Ala Glu Arg Cys Ser Leu
 1060 1065 1070
 Val Ile Asp Asn Pro Pro Pro Glu Val Phe Leu Val Asp Leu Gln Gln
 1075 1080 1085
 Gly Ile Gln Ile Phe Glu Leu Arg Ile Tyr Ala Ala Glu Met Gly His
 1090 1095 1100
 Arg Met Pro Leu Arg His Glu Ile His Gln Leu Ile Leu Ala Gly Phe
 1105 1110 1115
 Arg Glu His Gly Ile Asp Met Pro Phe Pro Pro Phe Gln Met Arg Leu
 1125 1130 1135
 Glu Thr Leu Asp Gly Arg Lys Thr Gly Arg Thr Leu Thr Ser Ala Ala
 1140 1145 1150
 Arg Thr Arg Pro Ala Gly Ser Leu
 1155 1160

<210> 7311

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7311

Lys Ser Pro Arg Cys His Arg Arg Asn Ala Cys Thr Val Gln Lys Gln
 1 5 10 15
 Lys Pro Pro Ile Arg Arg Arg Arg Arg Met Ala Glu Met Gln Lys Leu
 20 25 30
 Lys Val Glu Val Val Arg Tyr Asn Pro Glu Val Asp Ala Ala Pro His
 35 40 45
 Ser Ala Phe Tyr Glu Val Pro Tyr Asp Glu Gln Thr Ser Leu Leu Asp
 50 55 60
 Ala Leu Gly Tyr Ile Lys Asp Asn Leu Ala Pro Asp Leu Ser Tyr Arg
 65 70 75 80
 Trp Ser Cys Arg Met Ala Ile Cys Gly Ser Cys Gly Met Met Val Asn
 85 90 95
 Lys Val Pro Lys Leu Ala Cys Lys Thr Phe Leu Arg Asp Tyr Thr Lys
 100 105 110
 Gly Ile Lys Val Glu Ala Leu Gly Asn Phe Pro Ile Glu Arg Asp Leu
 115 120 125
 Val Val Asp Met Thr His Phe Ile Glu Ser Leu Glu Ala Ile Lys Pro
 130 135 140
 Tyr Ile Ile Gly Asn Pro Arg Thr Pro Asp Gln Gly Pro Asn Thr Gln
 145 150 155 160
 Thr Pro Ala Gln Met Ala Lys Tyr His Gln Phe Ser Gly Cys Ile Asn
 165 170 175
 Cys Gly Leu Cys Tyr Ala Ala Cys Pro Gln Phe Gly Leu Asn Pro Glu
 180 185 190
 Phe Ile Gly Pro Ala Ala Ile Thr Leu Ala His Arg Tyr Asn Glu Asp
 195 200 205
 Ser Arg Asp His Gly Lys Lys Glu Arg Met Ala Gln Leu Asn Ser Gln
 210 215 220
 Asn Gly Val Trp Thr Cys Thr Phe Val Gly Tyr Cys Ser Glu Val Cys
 225 230 235 240
 Pro Lys His Val Asp Pro Ala Ala Ala Ile Gln Gln Gly Lys Val Glu
 245 250 255
 Ser Ser Lys Asp Phe Leu Ile Ala Thr Leu Lys Pro Arg
 260 265 270

<210> 7312

<211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 7312

Leu	Leu	Ile	Phe	Leu	Thr	Glu	Glu	Thr	Met	Thr	Arg	Ser	Tyr	Leu	Pro
1				5					10					15	
Leu	Asn	Ser	Leu	Arg	Ala	Phe	Glu	Ala	Ala	Ala	Arg	His	Leu	Ser	Phe
			20					25					30		
Thr	His	Ala	Ala	Ile	Glu	Leu	Asn	Val	Thr	His	Ser	Ala	Ile	Ser	Gln
		35					40					45			
His	Val	Lys	Thr	Leu	Glu	Gln	His	Leu	Asn	Cys	Gln	Leu	Phe	Val	Arg
	50					55					60				
Val	Ser	Arg	Gly	Leu	Met	Leu	Thr	Thr	Glu	Gly	Glu	Asn	Leu	Leu	Pro
65					70					75					80
Val	Leu	Asn	Asp	Ser	Phe	Asp	Arg	Ile	Ala	Gly	Met	Leu	Asp	Arg	Phe
				85					90					95	
Ala	Asn	His	Arg	Ala	Gln	Glu	Lys	Leu	Lys	Ile	Gly	Val	Val	Gly	Thr
			100					105					110		
Phe	Ala	Thr	Gly	Val	Leu	Phe	Ser	Gln	Leu	Glu	Asp	Phe	Arg	Arg	Gly
		115					120					125			
Tyr	Pro	His	Ile	Asp	Leu	Gln	Leu	Ser	Thr	His	Asn	Asn	Arg	Val	Asp
	130					135					140				
Pro	Ala	Ala	Glu	Gly	Leu	Asp	Tyr	Thr	Ile	Arg	Tyr	Gly	Gly	Gly	Ala
145					150					155					160
Trp	His	Gly	Thr	Glu	Ala	Glu	Phe	Leu	Cys	His	Ala	Pro	Leu	Ala	Pro
				165				170						175	
Leu	Cys	Thr	Pro	Asp	Ile	Ala	Ala	Ser	Leu	His	Ser	Pro	Ala	Asp	Ile
			180					185					190		
Leu	Arg	Phe	Thr	Leu	Leu	Arg	Ser	Tyr	Arg	Arg	Asp	Glu	Trp	Thr	Ala
		195					200					205			
Trp	Met	Gln	Ala	Ala	Gly	Glu	His	Pro	Pro	Ser	Pro	Thr	His	Arg	Val
	210					215					220				
Met	Val	Phe	Asp	Ser	Ser	Val	Thr	Met	Leu	Glu	Ala	Ala	Gln	Ala	Gly
225					230					235					240
Val	Gly	Ile	Ala	Ile	Ala	Pro	Val	Asp	Met	Phe	Thr	His	Leu	Leu	Ala
				245					250					255	
Ser	Glu	Arg	Ile	Val	Gln	Pro	Phe	Ala	Thr	Gln	Ile	Glu	Leu	Gly	Ser
			260					265					270		
Tyr	Trp	Leu	Thr	Arg	Leu	Gln	Ser	Arg	Ala	Glu	Thr	Pro	Ala	Met	Arg
		275				280						285			
Glu	Phe	Ser	Arg	Trp	Leu	Val	Glu	Lys	Met	Lys	Lys				
	290					295					300				

<210> 7313
 <211> 327
 <212> PRT
 <213> Enterobacter cloacae

<400> 7313

Leu	Met	Ser	Glu	Thr	Ala	Thr	Trp	Gln	Pro	Ser	Ala	Ser	Ile	Pro	Asn
1				5				10						15	
Leu	Leu	Lys	Arg	Ala	Ala	Ile	Met	Ala	Glu	Ile	Arg	Arg	Phe	Phe	Ala
			20					25					30		
Asp	Arg	Gly	Val	Leu	Glu	Val	Glu	Thr	Pro	Cys	Met	Ser	Gln	Ala	Thr
		35					40					45			
Val	Thr	Asp	Ile	His	Leu	Val	Pro	Phe	Glu	Thr	Arg	Phe	Val	Gly	Pro
	50					55					60				
Gly	His	Ser	Gln	Gly	Met	Asn	Leu	Tyr	Leu	Met	Thr	Ser	Pro	Glu	Tyr
65					70					75					80
His	Met	Lys	Arg	Leu	Leu	Ala	Ala	Gly	Cys	Gly	Pro	Val	Tyr	Gln	Leu

			85					90					95				
Cys	Arg	Ser	Phe	Arg	Asn	Glu	Glu	Met	Gly	Arg	His	His	Asn	Pro	Glu		
			100					105					110				
Phe	Thr	Met	Leu	Glu	Trp	Tyr	Arg	Pro	His	Tyr	Asp	Met	Tyr	Arg	Leu		
		115					120					125					
Met	Asn	Glu	Val	Asp	Asp	Leu	Leu	Gln	Gln	Val	Leu	Asp	Cys	Ala	Glu		
	130					135					140						
Ala	Glu	Thr	Leu	Ser	Tyr	Gln	Gln	Ala	Phe	Gln	Arg	His	Leu	Glu	Ile		
145					150					155					160		
Asp	Pro	Leu	Ser	Ala	Asp	Lys	Thr	Gln	Leu	Arg	Glu	Val	Ala	Ala	Lys		
			165					170						175			
Leu	Asp	Leu	Ser	Asn	Val	Ala	Asp	Asn	Glu	Glu	Asp	Arg	Asp	Thr	Leu		
		180						185					190				
Leu	Gln	Leu	Phe	Thr	Phe	Gly	Val	Glu	Pro	Gln	Ile	Gly	Lys	Asp			
	195					200					205						
Arg	Pro	Thr	Phe	Val	Tyr	His	Phe	Pro	Ala	Ser	Gln	Ala	Ser	Leu	Ala		
	210				215						220						
Gln	Ile	Ser	Thr	Glu	Asp	His	Arg	Val	Ala	Glu	Arg	Phe	Glu	Val	Tyr		
225					230					235					240		
Phe	Lys	Gly	Ile	Glu	Leu	Ala	Asn	Gly	Phe	His	Glu	Leu	Thr	Asp	Ala		
			245					250						255			
Arg	Glu	Gln	Gln	Arg	Phe	Glu	Gln	Asp	Asn	Arg	Lys	Arg	Asn	Ala			
		260					265					270					
Arg	Gly	Leu	Pro	Gln	Gln	Pro	Ile	Asp	Thr	Asn	Leu	Leu	Glu	Ala	Leu		
	275					280					285						
Lys	Ala	Gly	Leu	Pro	Asp	Cys	Ser	Gly	Val	Ala	Leu	Gly	Val	Asp	Arg		
	290				295					300							
Leu	Val	Met	Leu	Ala	Leu	Gly	Ala	Glu	Gln	Leu	Gly	Asp	Val	Ile	Ala		
305					310					315					320		
Phe	Thr	Val	Asp	Arg	Ala												
			325														

<210> 7314

<211> 521

<212> PRT

<213> Enterobacter cloacae

<400> 7314

Pro	Gln	Tyr	Leu	Ser	Gly	His	Leu	Leu	Pro	Ser	Ala	Gln	Phe	Asn	Ser		
1			5					10					15				
Val	Ser	Asp	Gly	Tyr	Met	Ser	His	Ser	Leu	Lys	Lys	Met	Thr	Leu	Thr		
		20					25					30					
Gly	Leu	Ile	Leu	Met	Ile	Phe	Thr	Ser	Val	Phe	Gly	Phe	Ala	Asn	Ser		
	35				40						45						
Pro	Ser	Ala	Phe	Tyr	Leu	Met	Gly	Tyr	Ser	Ala	Thr	Pro	Phe	Tyr	Ile		
	50				55					60							
Val	Ser	Ala	Leu	Phe	Phe	Phe	Ile	Pro	Phe	Ala	Leu	Met	Met	Ala	Glu		
65				70					75						80		
Met	Gly	Ser	Ala	Tyr	Arg	Lys	Glu	Glu	Gly	Gly	Ile	Tyr	Ser	Trp	Met		
			85					90					95				
Asn	Asn	Ser	Val	Gly	Pro	Arg	Tyr	Ala	Phe	Ile	Gly	Thr	Phe	Met	Trp		
		100					105						110				
Phe	Ser	Ser	Tyr	Val	Val	Trp	Met	Val	Ser	Thr	Ala	Ala	Lys	Val	Trp		
		115					120					125					
Val	Pro	Phe	Ser	Thr	Phe	Leu	Phe	Gly	Ala	Asp	Lys	Thr	Gln	Val	Trp		
	130				135						140						
Ser	Leu	Ala	Gly	Leu	Ser	Thr	Gln	Val	Val	Gly	Ile	Leu	Ala	Val			
145				150					155					160			
Cys	Trp	Met	Val	Val	Val	Thr	Leu	Val	Ala	Ser	Lys	Gly	Ile	Asn	Lys		
			165					170						175			
Ile	Ala	Arg	Ile	Thr	Ala	Val	Gly	Gly	Ile	Ser	Val	Met	Cys	Leu	Asn		

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<210> 7315
<211> 214
<212> PRT
<213> Enterobacter cloacae
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<400> 7315																
Asn	Met	Ala	Lys	Tyr	Pro	Ile	Ser	Asn	Lys	Ala	Asp	Asn	Asp	Arg	Ile	
1				5					10					15		
Gln	Ile	Arg	Ser	Phe	Trp	Ile	Ser	Glu	Arg	Lys	Ala	Pro	Tyr	Val	Tyr	
			20					25					30			
Ser	Phe	Leu	Lys	Lys	Thr	Glu	Leu	Cys	His	Arg	Gly	Asp	Gln	Leu	Asp	
		35					40					45				
Leu	Ile	Arg	Ser	Ala	Ile	Ser	Thr	Gly	Leu	Val	Leu	Asn	Asn	Leu	Phe	
	50					55					60					
Pro	Asp	Leu	Ala	Asn	Phe	Ile	Asn	Gly	Leu	Asn	Glu	Arg	Leu	Thr	Leu	
65					70					75					80	
Ala	Asp	Leu	Asn	Arg	Phe	Leu	Asn	Asp	Gly	Asn	Thr	Ile	Asp	Thr	Glu	

				85				90					95				
Pro	Lys	Pro	Pro	Ile	Asn	Val	Leu	Leu	Glu	Asn	Val	Leu	Asp	Gln	Lys		
			100					105					110				
Phe	Lys	Glu	Tyr	Leu	Thr	Pro	Leu	Gln	Leu	Asp	Asn	Ser	Lys	Gln	Asp		
		115					120					125					
Ser	Val	Ser	Val	Lys	Glu	Thr	Phe	Leu	Val	Gln	Lys	Glu	His	Ala	Cys		
		130				135					140						
Phe	Gly	Val	Lys	Ile	Glu	Asn	Glu	Gly	Ser	Asp	Thr	Ser	Ile	Pro	Ser		
145					150					155					160		
Glu	Ser	Pro	Leu	Ser	Ser	Gly	Ala	Ser	Lys	Ile	Ser	Lys	Glu	Lys	Ser		
			165					170						175			
Ile	Ser	Ser	Val	Pro	Val	Leu	Glu	Lys	Val	Ser	Asp	Glu	Asn	Gln			
			180				185					190					
Thr	Ala	Ser	Ile	Ser	Ile	Lys	Ser	Lys	Ala	Lys	Ala	Asn	Lys	Arg	Leu		
		195					200					205					
Ala	Thr	Leu	Ala	Arg													
		210															

<210> 7316

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 7316

Leu	His	Lys	Ile	Ser	Arg	Arg	Val	Arg	Ala	His	Met	Ser	His	Thr	Ile		
1				5				10					15				
Arg	Asp	Lys	Gln	Lys	Leu	Lys	Ala	Arg	Thr	Ser	Lys	Ile	Gln	Gly	Gln		
		20						25				30					
Val	Ala	Ala	Leu	Lys	Lys	Met	Leu	Asp	Glu	Pro	His	Glu	Cys	Ala	Ala		
		35					40				45						
Val	Leu	Gln	Gln	Ile	Ala	Ala	Ile	Arg	Gly	Ala	Val	Asn	Gly	Leu	Leu		
	50					55					60						
Arg	Glu	Val	Ile	Lys	Gly	His	Leu	Thr	Glu	His	Ile	Val	His	Glu	Ser		
65					70					75					80		
Glu	Glu	Gln	Lys	Arg	Glu	Glu	Asp	Leu	Asp	Val	Val	Leu	Lys	Val	Leu		
				85				90						95			
Asp	Ser	Tyr	Ile	Lys													
			100														

<210> 7317

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 7317

Glu	Trp	Lys	Arg	Ser	Tyr	Leu	Tyr	Arg	Gln	Tyr	Leu	Ala	Ser	Glu	Cys		
1				5				10					15				
Ser	Glu	Arg	Ser	Tyr	Gln	His	Ile	Phe	Cys	Lys	Pro	Ala	Ser	Gly	Arg		
		20						25				30					
Arg	Lys	Lys	Met	Met	Ile	Glu	Asn	Asp	Lys	Glu	Lys	Ser	Leu	Asn	Asp		
		35					40				45						
Ala	Thr	Ser	Pro	Glu	Val	Gln	Asn	Asp	Ile	Arg	Ser	Glu	Ser	Thr	Glu		
	50					55					60						
Lys	Ser	Lys	Glu	Met	Gly	Arg	Ser	Arg	Tyr	Ser	Ser	Ile	Ala	Met	Ile		
65					70				75						80		
Asp	Tyr	Phe	Asn	Ala	Ile	Glu	Arg	Leu	Cys	Glu	Glu	Lys	Lys	Ile	Asn		
			85					90						95			
Pro	Glu	Asn	Ile	Asp	Leu	Ser	Phe	Lys	Val	His	Trp	Leu	Arg	Asn	Ala		
		100						105					110				
Val	Gly	Gly	Ser	Phe	Ala	Arg	Ser	Gln	Glu	Met	Phe	Ala	Glu	Tyr	Gln		
		115					120						125				

Lys Tyr Val Lys Glu Val Pro Glu Glu Ala Arg Tyr Leu Asp Ile Pro
 130 135 140
 Asp Glu Val Lys Val Ala Leu Gly Asp Ile Ile Ser Tyr Ile Thr Trp
 145 150 155 160
 His Tyr Arg Arg Ser Tyr Thr Ala Ile Gln Ser Asp Ser Val Lys Lys
 165 170 175
 Ala Glu Ala Arg Ser Met Gln Leu Glu Glu Glu Val Thr Gln Leu Leu
 180 185 190
 Gln Arg Leu Glu Gln Ser Ala Thr Asp Met Asp Glu Leu Lys Leu Glu
 195 200 205
 Asn Gln Ala Leu Gln Gly Arg Leu Glu Ile Arg Asp Ser Thr Val Lys
 210 215 220
 Glu Leu Glu Thr Arg Leu Asn Val Ala Glu Ala Glu Leu Glu Thr Cys
 225 230 235 240
 His His Gln Leu Asp Ser Thr Arg His Glu Leu Ser Leu Ala Gln Gln
 245 250 255
 Ser Asn Asp Ser Leu Ser Gln Gln Leu Ala Glu Arg Lys Thr Glu Ile
 260 265 270
 Ala Gly His Leu Glu Tyr Gln Lys Lys Leu Asn Glu Glu Ile Asn Thr
 275 280 285
 Gln Arg Ser Asp Asn Ala Gly Leu Ser Arg Gln Cys Asp Gln Leu Ser
 290 295 300
 Gln Thr Val Ser Asp Thr Lys Ala Glu Arg Asp Arg Phe Glu Gln Glu
 305 310 315 320
 Leu Ile Ala Ala Gln Asn Leu Cys Ala Glu Leu Lys Ser Ala Leu Ser
 325 330 335
 Gly Lys Glu Gly Asp Leu Val Ala Val Asn Ala Glu Leu Thr Glu Leu
 340 345 350
 His Lys Leu Asn Glu Ser Leu Ser Ala Asp Leu Lys Lys Val Thr Leu
 355 360 365
 Val Ser Gln Gly Tyr Glu Ala Glu Val Ala Glu Gln Ser Ser Glu Leu
 370 375 380
 Lys Thr Leu Gln Ser Lys Val Met Lys Leu Glu Ala Thr Leu Glu Ala
 385 390 395 400
 Glu Lys Thr Ile Ser Glu Ser Leu Lys Gly Thr Ile Asp Thr Leu Thr
 405 410 415
 Gly Ala Met Ala Gly Gly Gly Thr Gly Lys Ser Lys Gln Pro Arg Ser
 420 425 430
 Arg Lys Thr Ser
 435

<210> 7318

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (20)

<400> 7318

Phe Ser Pro Lys Thr Arg Lys Leu Gly Arg Leu Lys Val His Gln Gln
 1 5 10 15
 Leu His Val Xaa Gly Leu Val Pro Gln Asp Val His Leu Phe Val Thr
 20 25 30
 Val Pro Leu Ser Gln Phe Tyr Thr Ala Leu Gly Glu Thr Asn Ile Glu
 35 40 45
 Asn Ile Gln Arg Lys Lys Asp Asn Leu Met Lys Pro Val Glu Arg Tyr
 50 55 60
 Leu Asp Gly Lys Arg Tyr Ser Phe Asn Val Leu Ser Val Thr Val Phe
 65 70 75 80

Pro	Glu	Ser	Leu	Pro	Ala	Val	Thr	Arg	Ala	Asp	Glu	Ile	Glu	Asp	Ile
			85						90					95	
Ala	Ser	Phe	Glu	Ser	Ser	Leu	Val	Ile	Asp	Leu	Gly	Gly	Thr	Thr	Leu
			100					105					110		
Asp	Val	Ala	Ser	Ile	Thr	Gly	Gln	Leu	Glu	Gln	Ile	Ser	Lys	Val	Lys
		115				120						125			
Gly	Phe	Asp	Arg	Ile	Gly	Cys	Ser	Ile	Val	Tyr	Asp	Glu	Ile	Ser	Arg
	130				135						140				
Tyr	Leu	Glu	Ser	Glu	Lys	Leu	Asn	Thr	Ser	Asn	Ala	Tyr	Ile	His	His
145					150					155					160
Leu	Val	Asp	Asn	Arg	His	Asp	Lys	Ser	Ala	Leu	Lys	Val	Ala	Glu	Asp
			165						170					175	
Lys	Arg	Asp	Gly	Val	Phe	Asp	Ala	Val	Asn	Ser	Ala	Val	Gln	Lys	Leu
			180					185					190		
Gln	Ser	Lys	Val	Ile	Arg	Ala	Val	Thr	Gln	Val	Glu	Glu	Arg	Pro	His
		195					200					205			
Asn	Val	Phe	Leu	Val	Gly	Gly	Gly	Ser	Tyr	Leu	Ile	Glu	Thr	Ala	Ile
	210				215						220				
Arg	Lys	His	Phe	Glu	Thr	Ala	Lys	Val	Ile	Met	Val	Asp	Asn	Pro	Gln
225					230					235					240
Phe	Ala	Leu	Ser	Leu	Ala	Ile	Ala	Asp	Thr	Ile	Tyr	Ser	Glu		
				245					250					255	

<210> 7319

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 7319

Val	Thr	Ile	Tyr	Arg	Pro	Thr	Val	Ala	Gln	Glu	Met	Gly	Gly	Asp	His
1				5					10					15	
Ser	Ile	Asn	Lys	Ala	Ala	Val	Met	Leu	Thr	Val	Trp	Trp	Leu	Ser	Ser
			20					25					30		
Phe	Ile	Leu	Ile	Ser	Thr	Leu	Asn	Gly	Tyr	Phe	Asp	Asn	Gln	Asp	Arg
	35						40					45			
Asp	Phe	Leu	Thr	Gly	Lys	Leu	Gln	Leu	Thr	Glu	Glu	Phe	Leu	Lys	Thr
	50					55					60				
Glu	Thr	Phe	Arg	Asn	Lys	Thr	Asp	Ile	Lys	Ser	Leu	Ser	Glu	Lys	Ile
65					70					75					80
Asn	Asp	Ala	Met	Val	Gly	His	Asn	Gly	Leu	Phe	Ile	Ser	Ile	Lys	Asn
				85					90					95	
Met	Glu	Asn	Glu	Lys	Ile	Val	Glu	Leu	Tyr	Ala	Lys	Asn	Ser	Val	Val
		100						105					110		
Pro	Ala	Val	Leu	Leu	Asn	Lys	Ser	Gly	Asp	Ile	Leu	Asp	Tyr	Met	Ile
		115						120					125		
Gln	Thr	Glu	Glu	Asn	Asn	Thr	Val	Tyr	Arg	Ser	Ile	Ser	Arg	Arg	Val
	130					135						140			
Ala	Val	Thr	Pro	Glu	Gln	Gly	Lys	Ser	Lys	His	Val	Ile	Ile	Thr	Val
145					150					155					160
Ala	Thr	Asp	Thr	Gly	Tyr	His	Thr	Leu	Phe	Met	Asp	Lys	Leu	Ser	Thr
				165					170					175	
Trp	Leu	Phe	Trp	Phe	Asn	Ile	Gly	Leu	Val	Phe	Ile	Ser	Val	Phe	Leu
		180						185					190		
Gly	Trp	Leu	Thr	Thr	Arg	Ile	Gly	Leu	Lys	Pro	Leu	Arg	Glu	Met	Thr
		195					200					205			
Ser	Leu	Ala	Ser	Ser	Met	Thr	Val	His	Ser	Leu	Asp	Gln	Arg	Leu	Asn
	210					215					220				
Pro	Asp	Leu	Ala	Pro	Pro	Glu	Ile	Ser	Glu	Thr	Met	Gln	Glu	Phe	Asn
225					230					235					240
Asn	Met	Phe	Asp	Arg	Leu	Glu	Gly	Ser	Phe	Arg	Lys	Leu	Ser	Asp	Phe
				245					250					255	

Ser Ser Asp Ile Ala His Glu Leu Arg Thr Ala Val Ser Asn Leu Met
 260 265 270
 Met Gln Thr Gln Phe Ala Leu Ala Lys Glu Arg Asp Val Ser His Tyr
 275 280 285
 Arg Glu Ile Leu Phe Ala Tyr Leu Glu Glu Leu Lys Arg Leu Ser Arg
 290 295 300
 Met Thr Ser Asp Met Leu Phe Leu Ala Arg Ser Glu His Gly Leu Leu
 305 310 315 320
 Gln Leu Asp Lys His Asp Val Asp Leu Ala Ala Glu Leu Asn Glu Leu
 325 330 335
 Arg Glu Leu Phe Glu Pro Leu Ala Asp Glu Thr Gly Lys Thr Ile Thr
 340 345 350
 Val Glu Gly Glu Gly Val Val Ala Gly Asp Ser Asp Met Leu Arg Arg
 355 360 365
 Ala Phe Ser Asn Leu Leu Ser Asn Ala Ile Lys Tyr Ser Pro Asp Asn
 370 375 380
 Thr Cys Thr Ala Ile His Leu Glu Arg Asp Ser Asp Cys Val Asn Val
 385 390 395 400
 Met Ile Thr Asn Thr Met Ser Gly Gln Val Pro Ala Asn Leu Glu Arg
 405 410 415
 Leu Phe Asp Arg Phe Tyr Arg Ala Asp Ser Ser Arg Val His Asn Thr
 420 425 430
 Glu Gly Ala Gly Leu Gly Leu Ser Ile Thr Arg Ser Ile Ile His Ala
 435 440 445
 His Gly Gly Glu Leu Ser Ala Glu Gln Gln Gly Arg Glu Ile Val Phe
 450 455 460
 Ser Val Arg Leu Leu Met Asp
 465 470

<210> 7320

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7320

Val Ile Val Val Ser Tyr Gln Gly Ser Glu Pro Val Pro Ala Ser Arg
 1 5 10 15
 Thr Gly Gln Leu Ile Ser Ala Arg Asp Met Ala Met Gln Lys Phe Glu
 20 25 30
 Glu Gly Met Arg Leu Ile Ser Glu Ala Ser Glu Leu Cys Gly Leu Ser
 35 40 45
 Leu Phe Thr Ser Arg Ile Met Gln Pro Asn Ala Phe Gly Leu Pro Ser
 50 55 60
 Ser Leu Asp Arg Thr Ile Glu Glu Gly Arg Lys Glu Ile Asp Arg Lys
 65 70 75 80
 Thr Trp Lys Arg Leu Phe Glu Glu Ile Gly Met Asp Arg Tyr Trp Asn
 85 90 95
 His Lys Gln Lys Glu Ala Phe Asn Glu Ser Leu Arg Thr Asp Pro Pro
 100 105 110
 Val Ala Ser Leu Glu Ile Val Lys Gly Thr Leu Gln His Ala Leu Ala
 115 120 125
 Asn Arg Arg Asp Thr Leu Ala Glu Gly Phe Val Asp Val Leu Asn Lys
 130 135 140
 Leu Asp Arg Ser Phe Lys Ser Asn Ala Arg Gln Tyr Thr Met Pro Lys
 145 150 155 160
 Lys Leu Val Leu Arg Gly Ile Phe Pro Gly Val Asn Val Leu Arg Tyr
 165 170 175
 Asn Gly Phe Ser Gln Asp Asn His Phe Cys Leu Arg Asp Phe Glu Asn
 180 185 190
 Ile Val Cys Ile Cys Ser Asp Thr Pro Thr Pro Ala Thr Gly Gly Gly
 195 200 205

Leu Ser Met Val Asp Arg Leu Thr Ala Met Arg Asn Thr Asp Phe Thr
 210 215 220
 Gly Glu Val Cys Asp Glu Asn Gly Trp Arg Cys Arg Leu Phe Glu Asn
 225 230 235 240
 Gly Asn Val His Ile Cys Ile Asp Ser Ile Ser Leu Leu Asn Ala Leu
 245 250 255
 Asn Asp Leu Ile Ser Ile Tyr Phe Ala Asn Gln Leu Pro Ala Ala Gly
 260 265 270
 Lys Lys
 275

<210> 7321

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7321

Val Ala Ala Lys Thr Asn Lys Asp Asp Thr Phe Thr Val Leu Gly Ser
 1 5 10 15
 Glu Met Thr Ala Ile Asp Asp Phe Arg Ile Ile Arg Ala Arg Ala Phe
 20 25 30
 Ala Val Cys Asp Val Val Ala Lys Leu Ile Glu Arg Phe His Asp Asp
 35 40 45
 Val Lys Gly Ile Thr Leu Ile Val Thr Leu Gln Ile Phe Tyr Val Phe
 50 55 60
 Gln Asn Lys Asn Cys Arg Leu Phe Cys Pro Asp Asp Pro Gly His Ile
 65 70 75 80
 Lys Glu Glu Arg Thr Leu Ser Val Ala Leu Glu Thr Val Phe Ala Thr
 85 90 95
 His Arg Val Leu Phe Thr Asp Thr Gly Asp Ala Glu Trp Leu Ala Trp
 100 105 110
 Lys Ser Arg Lys Lys Asn Ile Met Ile Arg Asp Arg Gly Ile Asp Lys
 115 120 125
 Phe Val Cys Leu Val Ile Ser Asn Leu Gly Pro Val Ala Lys Ser Asp
 130 135 140
 Val Thr Asp Val
 145

<210> 7322

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 7322

Val Arg Asn Val Val Gln Arg Gln Val Cys Thr Asp Asp Phe Met Cys
 1 5 10 15
 Val Ala Val Asn Cys Gln Met Gln Leu Thr Pro Tyr Thr Ala Ala Phe
 20 25 30
 Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
 35 40 45
 Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
 50 55 60
 Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
 65 70 75 80
 Ile Arg Ala Ala
 85

<210> 7323

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 7323

```

Leu Phe Gly Tyr Glu Asn Thr Gly Asp Pro Thr Met Lys Lys Ile Leu
1      5      10      15
Val Ser Phe Val Ala Ile Met Ala Val Ala Ser Ser Ala Met Ala Ala
      20      25      30
Glu Thr Met Asn Met His Asp Gln Val Asn Asn Ala Gln Ala Pro Ala
      35      40      45
His Gln Met Gln Ser Thr Ser Glu Lys Ser Ala Val Gln Gly Asp Ser
      50      55      60
Met Thr Met Met Asp Met Ser Gly His Asp Gln Ala Ala Met Ser His
65      70      75      80
Glu Met Met Gln Asn Gly Asn Ala Ser Ala His Gln Asp Met Ala Glu
      85      90      95
Met His Lys Lys Met Met Lys Gly Lys Pro Gly Ala Thr Asn Glu Ser
      100      105      110
Ala Thr Ser Phe Ser Glu Met Asn Glu His Glu Lys Ala Ala Val Val
      115      120      125
His Glu Lys Ala Asn Asn Gly Gln Ser Ser Val Ile His Gln Gln Gln
130      135      140
Ala Glu Lys His Arg Ser Gln Ile Thr Gln Asn
145      150      155

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<210> 7324

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 7324

```

Leu Val Lys Ile Leu Pro Val Asn Arg Leu Val Asp Thr Cys Leu Tyr
1      5      10      15
Ser Thr Asn Ser Gly Glu Met Met Phe Phe Phe Thr Lys Leu Leu Leu
      20      25      30
Pro Ile Met Ile Val Val Phe Pro Val Ala Ser Trp Gly Asn Ser Thr
      35      40      45
Thr Phe Glu Ala Lys Val Val Lys Ile Val Asp Gly Asp Thr Ile Thr
      50      55      60
Ala Leu Asp Ala Gln Asn Thr Thr Ile Lys Ile Arg Met Tyr Gly Ile
65      70      75      80
Asp Ala Pro Glu Ser Lys Gln Ala Phe Gly Gln Lys Ala Lys Gln Ala
      85      90      95
Leu Thr Thr Ala Ile Ala Thr Lys Ile Val Thr Val Ile Asp His Gly
      100      105      110
Thr Asp Ile Tyr Gly Arg Met Leu Gly Thr Ile Trp Leu Asp Gly Tyr
      115      120      125
Asp Ile Asn Ala Ser Met Val Asp Ser Gly Tyr Ala Trp Val Tyr Arg
130      135      140
Phe Glu Asp Asn Ala Ile Val Pro Gly Tyr Ile Lys Tyr Glu Ser Ala
145      150      155      160
Ala Gln Lys Glu Ala Lys Gly Leu Trp Ala Asp Thr Asn Pro Val Pro
      165      170      175
Pro Trp Gln Trp Arg Gln Ala Asn Glu Lys Pro Arg Lys Val Lys Gly
180      185      190
Lys Lys
      195

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<210> 7325

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 7325

Ser	Glu	Cys	His	Val	His	Ala	Pro	Thr	Gly	Asn	Gly	Val	Thr	Leu	Asn
1				5					10					15	
Thr	Ser	Gln	Val	Ser	Tyr	Tyr	Met	Thr	Gln	Arg	Lys	Lys	Gly	Ala	Thr
			20					25					30		
Gln	His	Ile	Ser	Ala	Met	Lys	Ala	Gly	Ile	Ser	Val	Arg	Ser	Gly	Arg
		35					40					45			
Arg	Ile	Glu	Lys	Asp	Gln	Trp	Ser	Lys	Ala	Gly	Glu	Arg	His	Trp	Arg
		50				55					60				
Thr	Arg	Lys	Asp	Pro	Leu	Glu	Ala	Val	Trp	Asp	Ser	Glu	Leu	Val	Pro
65					70					75					80
Leu	Leu	Lys	Glu	Arg	Pro	Ala	Leu	Met	Pro	Thr	Thr	Leu	Leu	Glu	Met
				85					90					95	
Leu	Gln	Asp	Lys	Tyr	Pro	Gly	Gln	Tyr	Pro	Asn	Asn	Leu	Arg	Arg	Thr
			100					105					110		
Met	Gln	Arg	Arg	Val	Arg	Glu	Trp	Lys	Leu	Gln	Tyr	Gly	Ala	Glu	Gln
			115				120					125			
Glu	Val	Met	Phe	Arg	Gln	Arg	His	Gln	Pro	Gly	Leu	Arg	Gly	Leu	Ser
						135					140				
Asp	Phe	Thr	Glu	Leu	Lys	Gly	Val	Val	Val	Thr	Ile	Ala	Gly	Lys	Leu
145					150					155					160
Leu	Ala	His	Lys	Leu	Tyr	His	Phe	Arg	Leu	Glu	Trp	Ser	His	Trp	Ser
				165					170					175	
Trp	Met	Arg	Val	Val	Leu	Gly	Gly	Glu	Ser	Phe	Ser	Ala	Leu	Ala	Glu
			180					185					190		
Gly	Leu	Gln	Glu	Ala	Leu	Gly	Gln	Leu	Gly	Gly	Val	Pro	Ser	Glu	His
		195					200					205			
Lys	Thr	Asp	Ser	Leu	Arg	Ala	Ala	Trp	Lys	His	Arg	Gly	Glu	Asp	Gly
		210				215					220				
Gln	Arg	Glu	Leu	Thr	Glu	Arg	Tyr	Ala	Glu	Leu	Cys	Arg	His	Tyr	Gly
225					230					235					240
Met	Gln	Gly	Val	His	Asn	Asn	Ala	Gly	Arg	Gly	His	Glu	Asn	Gly	Ser
				245					250					255	
Val	Glu	Ser	Ala	His	Gly	His	Leu	Lys	Arg	Arg	Ile	Arg	Gln	Ala	Leu
			260					265					270		
Ile	Leu	Arg	Gly	Ser	Asn	Asp	Phe	Ser	Thr	Leu	Glu	Glu	Tyr	Gln	Ala
		275					280					285			
Phe	Ile	Thr	Gln	Gln	Val	Met	Arg	His	Asn	Arg	Asn	Asn	Gln	Asp	Leu
290						295					300				
Val	Lys	Glu	Glu	Gln	Pro	His	Leu	Lys	Pro	Leu	Pro	Leu	Arg	Arg	Ser
305					310					315					320
Ala	Asp	Tyr	Asp	Glu	Leu	Thr	Val	Arg	Val	Ser	Ser	Ser	Ser	Thr	Ile
				325					330					335	
Asn	Val	Arg	His	Val	Ile	Tyr	Ser	Val	Pro	Ser	Arg	Leu	Val	Gly	Gln
			340					345					350		
Leu	Leu	Arg	Val	Arg	Leu	Trp	Asp	Asp	Arg	Leu	Ser	Cys	Tyr	Val	Gly
			355				360					365			
Ser	Asn	Glu	Val	Met	Asn	Cys	Pro	Arg	Val	Arg	Pro	Glu	Lys	Gly	Lys
					375						380				
Thr	Arg	Ala	Arg	Arg	Ile	Asp	Phe	Arg	His	Val	Ile	Asp	Ser	Leu	Ala
385					390					395					400
Lys	Lys	Pro	Gly	Ala	Phe	Cys	His	Ala	Thr	Leu	Arg	Asn	Asp	Ile	Leu
				405					410					415	
Pro	Asp	Asp	Glu	Trp	Arg	Lys	Leu	Trp	Arg	Arg	Leu	Cys	Asn	His	Leu
			420					425					430		
Glu	Pro	Glu	Met	Ala	Gly	Arg	Leu	Met	Val	His	Ala	Leu	Lys	Leu	Ala
			435				440					445			
Ala	Gly	Tyr	Asp	Asp	Ile	Ser	Val	Val	Ala	Arg	Gly	Met	Glu	Gln	Met
					455						460				
Leu	Asn	Thr	Pro	Gly	Glu	Leu	Asp	Leu	Asn	Arg	Leu	Met	Arg	Phe	Leu
465					470					475					480

Gly Ile Lys Glu Lys Glu Leu Pro Pro Val Ser Val Val Gln His Asn
 485 490 495
 Leu Ser Ser Tyr Glu Gln Leu Leu Arg Gly Lys Gly Gly Leu Gln
 500 505 510

<210> 7326

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 7326

Trp Asn Gly Arg Leu Pro Ser Leu Val Pro Gln Trp Asp Asp Lys Ser
 1 5 10 15
 Ser Leu Ile Glu Arg Ser Ala Ala Ile Met Asn Val Lys Thr Ile Gly
 20 25 30
 Ile Asp Leu Ala Lys Asn Val Phe Gln Ile His Gly Val Asp Glu His
 35 40 45
 Gly Lys Arg Leu Phe Asn Lys Gln Leu Arg Arg Ala Gln Met Ala Ser
 50 55 60
 Phe Phe Ala Asn Ile Pro Cys Leu Ile Gly Met Glu Ala Cys Ala
 65 70 75 80
 Ser Ala His Phe Trp Ala Asn Lys Leu Ile Ser Met Gly His Asn Val
 85 90 95
 Lys Leu Met Ala Pro Gln Phe Val Lys Pro Tyr Val Lys Thr Asn Lys
 100 105 110
 His Asp Ala Ala Asp Ala Glu Ala Ile Cys Glu Ala Val Thr Arg Pro
 115 120 125
 Asn Met Arg Phe Val Pro Val Lys Thr Ala Glu Gln Gln Ala Val Leu
 130 135 140
 Ala Leu His Arg Ser Arg Gln Ser Phe Ile Lys Gln Arg Thr Ala Gln
 145 150 155 160
 Ala Asn Gln Ile Arg Gly Leu Leu Ala Glu Phe Gly Ile Val Val Pro
 165 170 175
 Arg Gly Ile Gln Gln Leu Gln Arg Arg Leu Pro Glu Leu Val Glu Asp
 180 185 190
 Ala Asp Asn Pro Leu Pro Val Leu Phe Arg Thr Gln Leu Ser Leu Leu
 195 200 205
 Gln His His Met Ala Tyr Leu Phe Asp Val Ile Ala Thr Leu Asp Lys
 210 215 220
 Gln Ile Glu Gln Cys Tyr Arg Gln Asn Ala Leu Cys Gln Arg Ile Gly
 225 230 235 240
 Lys Ile Pro Gly Ile Gly Pro Val Thr Ala Ser Ala Leu Ile Ala Thr
 245 250 255
 Ile Gly Lys Ala Asn Asn Phe Glu Asn Gly Arg Gln Leu Ala Ala Trp
 260 265 270
 Leu Gly Leu Val Pro Arg Gln His Ser Ser Gly Gly Lys Gln Val Leu
 275 280 285
 Leu Gly Ile Ser Lys Arg Gly Asp Thr Tyr Leu Arg Thr Leu Leu Ile
 290 295 300
 His Gly Ala Arg Ala Val Leu Gln Ser Ala Lys His Lys Gln Asp Ala
 305 310 315 320
 Val Ser Ser Trp Ala Asn Gln Leu Met Ala Arg Arg Asn Asn Asn Ile
 325 330 335
 Ala Ser Val Ala Leu Ala Asn Lys Asn Ala Arg Thr Val Trp Ala Leu
 340 345 350
 Leu Ala Lys Glu Arg Glu Tyr Cys Ala Pro Ile Ile Ser Ala
 355 360 365

<210> 7327

<211> 330

<212> PRT

<213> *Enterobacter cloacae*

<400> 7327

```

Ile Asn Arg Thr Phe Ala Glu Leu Lys Asp Gln Ile Thr His Leu Pro
1      5      10      15
Asp Asn Ala Asp Arg Ser Val Ala Lys Gln Lys Phe Lys Ile Thr Asn
20      25      30
Trp Pro Thr Tyr Asn Lys Ala Leu Ile Asn Arg Gly Ser Ile Thr Phe
35      40      45
Trp Leu Asp Asp Glu Ala Ile Gln Ala Trp Tyr Glu Ser Ala Thr Pro
50      55      60
Ser Ser Arg Gly Arg Pro Gln Arg Tyr Ser Asp Leu Ala Ile Thr Thr
65      70      75      80
Val Leu Val Ile Lys Arg Val Phe Arg Leu Thr Leu Arg Ala Ala Gln
85      90      95
Gly Phe Ile Asp Ser Ile Phe Ser Leu Met Asn Val Pro Leu Arg Cys
100     105     110
Pro Asp Tyr Ser Cys Val Ser Arg Arg Ala Lys Ser Val Asn Val Ser
115     120     125
Phe Lys Thr Pro Thr Arg Gly Glu Ile Ala His Leu Val Ile Asp Ser
130     135     140
Thr Gly Leu Lys Val Phe Gly Glu Gly Glu Trp Lys Val Lys Lys His
145     150     155     160
Gly Gln Glu Arg Arg Arg Ile Trp Arg Lys Leu His Leu Ala Val Asp
165     170     175
Ser Asn Thr His Glu Ile Ile Cys Ala Asp Leu Ser Leu Asn Asn Val
180     185     190
Thr Asp Ser Glu Ala Phe Pro Gly Leu Ile Arg Gln Thr His Arg Lys
195     200     205
Ile Arg Ser Ala Ala Ala Asp Gly Ala Tyr Asp Thr Arg Leu Cys His
210     215     220
Asp Glu Leu Arg Arg Lys Lys Ile Ser Ala Leu Ile Pro Pro Arg Lys
225     230     235     240
Gly Ala Gly Tyr Trp Pro Gly Glu Tyr Ala Asp Arg Asn Arg Ala Val
245     250     255
Ala Asn Gln Arg Met Thr Gly Ser Asn Ala Arg Trp Lys Trp Thr Thr
260     265     270
Asp Tyr Asn Arg Arg Ser Ile Ala Glu Thr Ala Met Tyr Arg Val Lys
275     280     285
Gln Leu Phe Gly Gly Ser Leu Thr Leu Arg Asp Tyr Asp Gly Gln Val
290     295     300
Ala Glu Ala Met Ala Leu Val Arg Ala Leu Asn Lys Met Thr Lys Ala
305     310     315     320
Gly Met Pro Glu Ser Val Arg Ile Ala
325     330

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<210> 7328

<211> 494

<212> PRT

<213> *Enterobacter cloacae*

<400> 7328

```

Ser Lys Leu Ser Val Leu Ile Tyr Leu Lys Asp Ile Ile Pro Glu Arg
1      5      10      15
Val Trp Met Lys Arg Tyr Thr His Asp Leu Glu Thr Asp Leu Asn Asp
20      25      30
Val Asp Lys Thr Pro Ser Leu Ile His Lys Thr Leu Leu Thr Ala Ser
35      40      45
Thr Ile Tyr Asp Leu Lys Tyr Leu Ala Gln Val Leu Asn Asp Glu Asn
50      55      60
Gly Ser Asn Trp Ser Arg Ala Ser Leu Lys Arg Gln Val Thr Cys Ile

```

65					70					75				80	
Pro	Glu	His	Cys	Asp	Leu	Ser	Ile	Ala	Asp	Gly	Arg	Tyr	Leu	Gln	Thr
				85					90					95	
Leu	Ile	Pro	Ser	Arg	Pro	Ala	Asp	Tyr	Glu	Asp	Arg	His	Phe	Ser	Phe
			100					105					110		
Ile	Asp	Leu	Phe	Ala	Gly	Ile	Gly	Gly	Leu	Arg	Ser	Gly	Phe	Asp	Ala
		115					120					125			
Ile	Gly	Gly	Lys	Cys	Leu	Phe	Thr	Ser	Glu	Trp	Asn	Thr	Tyr	Ser	Ser
	130					135					140				
Arg	Thr	Tyr	Arg	Ala	Asn	Trp	Tyr	Cys	Asp	Glu	Asn	Glu	His	Arg	Phe
145					150					155					160
Asn	Ser	Asp	Ile	Arg	Asp	Ile	Thr	Leu	Ser	Asn	Arg	Pro	Glu	Val	Thr
				165					170					175	
Asp	Asp	Glu	Ala	Tyr	Lys	Phe	Ile	Asp	Ala	Ser	Ile	Pro	Asp	His	Asp
			180					185					190		
Val	Leu	Leu	Ala	Gly	Phe	Pro	Cys	Gln	Pro	Phe	Ser	Ile	Ala	Gly	Val
		195					200					205			
Ser	Lys	Lys	Asn	Ser	Met	Gly	Arg	Lys	His	Gly	Phe	Glu	Cys	Asp	Thr
	210					215					220				
Gln	Gly	Thr	Leu	Phe	Phe	Asp	Val	Ala	Arg	Ile	Ile	Arg	Ala	Lys	Gln
225					230					235					240
Pro	Ala	Ile	Phe	Val	Leu	Glu	Asn	Val	Lys	Asn	Leu	Lys	Ser	His	Asp
				245					250					255	
Lys	Gly	Asn	Thr	Phe	Asn	Ile	Ile	Met	Lys	Thr	Leu	Asp	Glu	Leu	Gly
			260					265					270		
Tyr	Asp	Val	Ala	Asn	Ser	Glu	Ser	Thr	Gly	Ala	Asp	Asp	Pro	Lys	Val
	275						280					285			
Ile	Asp	Gly	Arg	His	Phe	Arg	Pro	Gln	His	Arg	Glu	Arg	Ile	Val	Leu
	290					295					300				
Ile	Gly	Phe	Arg	Arg	Asp	Leu	Arg	Leu	Lys	Asp	Gly	Phe	Thr	Leu	Arg
305					310					315					320
Asp	Ile	Lys	Asp	Phe	Tyr	Pro	Asp	Lys	Arg	Pro	Ser	Leu	Ser	Asp	Leu
				325					330					335	
Leu	Asp	Pro	Ser	Val	Asp	Ser	Lys	Tyr	Ile	Leu	Ser	Pro	Lys	Leu	Trp
			340					345					350		
Glu	Tyr	Leu	Tyr	Asn	Tyr	Ala	Lys	Lys	His	Ala	Ala	Lys	Gly	Asn	Gly
	355						360					365			
Phe	Gly	Phe	Gly	Leu	Val	Asp	Pro	Ser	Asn	Val	Asn	Ser	Val	Thr	Arg
	370					375					380				
Thr	Leu	Ser	Ser	Arg	Tyr	Met	Lys	Asp	Gly	Ser	Glu	Ile	Leu	Ile	Asp
385					390					395					400
Arg	Gly	Trp	Ser	His	Glu	Leu	Gly	Glu	Thr	Asp	Phe	His	Asn	Thr	Tyr
				405					410					415	
Asn	Met	Asp	Arg	Arg	Pro	Arg	Met	Leu	Thr	Pro	Arg	Glu	Cys	Ser	Arg
			420					425					430		
Leu	Met	Gly	Phe	Asp	Lys	Pro	Gly	Glu	Ser	Val	Phe	Arg	Ile	Pro	Val
	435						440					445			
Ser	Asn	Thr	Gln	Ala	Tyr	Arg	Gln	Phe	Gly	Asn	Ser	Val	Val	Val	Asp
	450					455				460					
Val	Phe	Ala	Ala	Val	Ala	Lys	Leu	Leu	Lys	Ser	Arg	Ile	Glu	Phe	Ala
465					470					475					480
Ala	Ser	Gln	Arg	Leu	Arg	Gln	Phe	Tyr	Asp	Glu	Val	Ser			
				485					490						

<210> 7329

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7329

Ala Val Ala Ala Trp Lys Arg Arg Ser Ala Val Ser Asn Ile His His

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<210> 7330
<211> 377
<212> PRT
<213> Enterobacter cloacae
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Pro	Arg	Met	Ile	Leu	Met	Asn	Glu	Phe	Thr	Thr	Leu	Leu	Gln	Gln	Gly
1				5					10					15	
Asn	Ala	Trp	Phe	Phe	Ile	Pro	Ser	Ala	Ile	Leu	Leu	Gly	Ala	Leu	His
			20					25					30		
Gly	Leu	Glu	Pro	Gly	His	Ser	Lys	Thr	Met	Met	Ala	Ala	Phe	Ile	Ile
		35					40					45			
Ala	Ile	Lys	Gly	Thr	Val	Arg	Gln	Ala	Val	Met	Leu	Gly	Val	Ala	Ala
	50					55					60				
Thr	Leu	Ser	His	Thr	Ala	Val	Val	Trp	Leu	Ile	Ala	Phe	Gly	Gly	Met
65					70					75					80
Tyr	Ile	Ser	Asn	Lys	Phe	Thr	Ala	Glu	Ser	Ala	Glu	Pro	Trp	Leu	Gln
				85					90					95	
Met	Val	Ser	Ser	Val	Ile	Ile	Leu	Gly	Thr	Ala	Phe	Trp	Met	Phe	Trp
			100					105					110		
Arg	Thr	Trp	Ser	Gly	Glu	Lys	Asn	Trp	Leu	Glu	Gly	Met	Gln	Glu	Asn
		115					120					125			
Glu	His	His	His	His	Asp	Glu	Thr	Arg	Leu	Ile	Asp	Thr	Gly	His	Gly
	130					135					140				
Lys	Val	Glu	Leu	Ser	Ile	Phe	Glu	Glu	Gly	Gln	Leu	Pro	His	Trp	Arg
145					150					155					160
Leu	Arg	Thr	Leu	Ser	Gly	Gln	Arg	Trp	Ala	Ser	Glu	Asp	Ile	Ser	Leu

				165				170					175				
Thr	Thr	Leu	Arg	Glu	Asn	Ser	Thr	Ile	Ser	Gln	Thr	Phe	Glu	Phe	Val		
			180					185					190				
Asp	His	Gly	Asp	Tyr	Leu	Glu	Ser	Thr	Ser	Pro	Ile	Pro	Glu	Pro	His		
		195					200					205					
Ser	Phe	Asn	Val	Arg	Leu	Ser	Leu	Gly	His	Arg	Gly	His	Val	His	Asp		
	210					215					220						
Tyr	Asp	Val	Ala	Phe	Ala	Glu	His	Asp	His	Asp	His	Asp	His	Ser	Glu		
225					230					235					240		
Leu	Asp	Gly	Leu	Asp	Val	Asn	Ser	Lys	Glu	Tyr	Gln	Asp	Ala	His	Glu		
				245					250						255		
Leu	Ala	His	Ala	Asn	Asp	Ile	Lys	Arg	Arg	Phe	Asp	Gly	Lys	Glu	Val		
			260					265					270				
Thr	Asn	Gly	Gln	Ile	Leu	Ile	Phe	Gly	Leu	Thr	Gly	Gly	Leu	Ile	Pro		
		275					280					285					
Cys	Pro	Ala	Ala	Ile	Thr	Val	Leu	Leu	Ile	Cys	Leu	Gln	Leu	Lys	Ala		
	290					295					300						
Leu	Thr	Leu	Gly	Ala	Thr	Leu	Val	Val	Cys	Phe	Ser	Ile	Gly	Leu	Ala		
305					310					315					320		
Leu	Thr	Leu	Val	Thr	Val	Gly	Val	Gly	Ala	Ala	Ile	Ser	Val	Arg	Gln		
				325					330						335		
Val	Ala	Lys	Arg	Trp	Ser	Gly	Phe	Asn	Thr	Ile	Ala	Arg	Arg	Ala	Pro		
			340					345					350				
Tyr	Ile	Ser	Ser	Ala	Leu	Ile	Ala	Ala	Val	Gly	Ile	Tyr	Met	Gly	Ile		
	355					360						365					
His	Gly	Trp	Asn	Gly	Leu	Val	His										
	370					375											

<210> 7331

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7331

Asn	Ser	Cys	Ala	Val	Asp	Gln	Arg	Val	Tyr	Leu	Lys	Lys	Gly	Leu	Leu		
1				5				10						15			
Met	Leu	Leu	Ala	Thr	Ala	Leu	Leu	Ile	Ile	Gly	Leu	Leu	Leu	Val	Val		
			20					25					30				
Tyr	Ser	Ala	Asp	Arg	Leu	Val	Phe	Ala	Ala	Ser	Ile	Leu	Cys	Arg	Leu		
		35					40					45					
Ile	Gly	Met	Pro	Pro	Ile	Ile	Ile	Gly	Met	Thr	Val	Val	Ser	Val	Gly		
	50					55					60						
Thr	Ser	Leu	Pro	Glu	Ile	Ile	Val	Ser	Val	Ser	Ala	Ser	Leu	His	Gly		
65					70					75					80		
Gln	Val	Asp	Leu	Ala	Ile	Gly	Thr	Ala	Ile	Gly	Ser	Asn	Ile	Val	Asn		
				85					90					95			
Ile	Leu	Leu	Ile	Leu	Gly	Leu	Ala	Ala	Leu	Leu	His	Pro	Phe	Arg	Val		
			100					105					110				
His	Ser	Asp	Val	Leu	Arg	Arg	Glu	Leu	Pro	Leu	Met	Leu	Val	Val	Ser		
		115					120					125					
Leu	Leu	Ala	Gly	Tyr	Val	Leu	Tyr	Asp	Gly	Val	Leu	Ser	Val	Gly	Asp		
	130					135					140						
Gly	Ile	Phe	Leu	Leu	Ala	Leu	Ala	Val	Ile	Trp	Leu	Leu	Tyr	Ser	Val		
145					150					155					160		
Lys	Ile	Ala	Arg	Leu	Ala	Glu	Lys	Gln	Gly	Asn	Asp	Ser	Leu	Thr	Arg		
				165					170						175		
Glu	His	Leu	Ala	Glu	Leu	Pro	Arg	Glu	Gly	Thr	Leu	Pro	Val	Ala	Leu		
			180					185					190				
Leu	Trp	Leu	Gly	Val	Ala	Leu	Ile	Ile	Met	Pro	Met	Ala	Thr	Arg	Met		
	195					200						205					
Val	Val	Asp	Asn	Ala	Thr	Val	Leu	Ala	Asn	Ala	Phe	Ala	Met	Ser	Glu		

210	215	220
Leu Thr Ile Gly Leu Thr Val Ile Ala Ile Gly Thr Ser Leu Pro Glu		
225	230	235
Leu Ala Thr Ala Ile Ala Gly Ala Arg Lys Gly Glu Asp Asp Ile Ala		
	245	250
Ile Gly Asn Ile Ile Gly Ser Asn Ile Phe Asn Ile Ala Ile Val Thr		
	260	265
Gly Leu Pro Ala Leu Ile Ser Pro Gly Pro Phe Asn Pro Met Val Phe		
	275	280
Thr Arg Asp Tyr Gly Val Met Leu Leu Val Ser Val Ile Phe Ala Leu		
	290	295
Leu Cys Trp Arg Arg Lys Glu Gln Ile Gly Lys Gly Ala Gly Ala Leu		
305	310	315
Leu Thr Gly Gly Phe Ile Val Trp Leu Ala Met Leu Tyr Trp Leu Ser		
	325	330
Pro Leu Leu Ser Gly		335
	340	

<210> 7332
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 7332

Ser Ala Ala Arg Trp Arg Ser Val Met Lys Asp Lys Thr Met Ser Asn	
1 5 10 15	
Ala Gly Ala Ser Leu Ala Thr Cys Tyr Gly Pro Val Ser Ala His Met	
20 25 30	
Met Ser Lys Ala Glu Asn Ile Arg Leu Leu Ile Leu Asp Val Asp Gly	
35 40 45	
Val Leu Ser Asp Gly Leu Ile Tyr Met Gly Asn Asn Gly Glu Glu Leu	
50 55 60	
Lys Ala Phe Asn Val Arg Asp Gly Tyr Gly Ile Arg Cys Ala Leu Thr	
65 70 75 80	
Ser Gly Ile Glu Val Ala Ile Ile Thr Gly Arg Lys Ala Lys Leu Val	
85 90 95	
Glu Asp Arg Cys Glu Thr Leu Gly Ile Thr His Leu Tyr Gln Gly Gln	
100 105 110	
Ser Asp Lys Met Val Ala Phe Arg Asp Leu Leu Gly Lys Leu Ala Ile	
115 120 125	
Ala Pro Glu Asn Val Ala Tyr Val Gly Asp Asp Leu Ile Asp Trp Pro	
130 135 140	
Val Met Ala Glu Val Gly Leu Ser Ile Ala Val Ala Asp Ala His Pro	
145 150 155 160	
Leu Leu Ile Pro Arg Ala Asp Tyr Val Thr His Ile His Gly Gly Arg	
165 170 175	
Gly Ala Val Arg Glu Val Cys Asp Leu Leu Leu Ala Gln Gly Lys	
180 185 190	
Leu Asp Glu Ala Lys Gly Gln Ser Ile	
195 200	

<210> 7333
 <211> 192
 <212> PRT
 <213> Enterobacter cloacae

<400> 7333

Leu Lys Arg Leu Glu Pro Pro Met Lys Phe Lys Thr Asn Lys Leu Ser	
1 5 10 15	
Leu Lys Val Val Ile Ala Ser Ala Leu Leu Ala Ala Ser Leu Pro Ala	
20 25 30	

Leu Ala Val Thr Gly Asp Thr Glu Gln Pro Ile His Ile Glu Ser Asp
 35 40 45
 Thr Gln Ser Leu Asp Met Gln Gly Asn Val Val Thr Phe Thr Gly Asn
 50 55 60
 Val Val Val Thr Gln Gly Thr Ile Lys Ile Asn Ala Asp Lys Val Val
 65 70 75 80
 Val Thr Arg Pro Gly Gly Glu Gln Gly Lys Glu Ile Ile Asp Gly Tyr
 85 90 95
 Gly Asn Pro Ala Thr Phe Tyr Gln Met Gln Asp Asn Gly Lys Pro Val
 100 105 110
 Lys Gly His Ala Ser His Met His Tyr Glu Leu Ala Lys Asp Leu Val
 115 120 125
 Ile Leu Thr Gly Asn Val Tyr Leu Glu Gln Leu Asp Ser Asn Ile Lys
 130 135 140
 Gly Asp Lys Ile Thr Tyr Leu Val Lys Glu Gln Lys Met Gln Ala Ser
 145 150 155 160
 Ser Glu Lys Gly Lys Arg Val Thr Thr Val Leu Val Pro Ser Gln Leu
 165 170 175
 Gln Asp Lys Asn Asn Gly Gln Ala Pro Ala Lys Lys Lys Ser Asn
 180 185 190

<210> 7334

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 7334

Phe Val Met Ala Thr Leu Thr Ala Lys Asn Leu Ala Lys Ala Tyr Lys
 1 5 10 15
 Gly Arg Arg Val Val Glu Asp Val Ser Leu Thr Val Asn Ser Gly Glu
 20 25 30
 Ile Val Gly Leu Leu Gly Pro Asn Gly Ala Gly Lys Thr Thr Phe
 35 40 45
 Tyr Met Val Val Gly Ile Val Pro Arg Asp Ala Gly Asn Ile Ile Ile
 50 55 60
 Asp Asp Glu Asp Ile Ser Leu Leu Pro Leu His Ala Arg Ala Arg Arg
 65 70 75 80
 Gly Ile Gly Tyr Leu Pro Gln Glu Ala Ser Ile Phe Arg Arg Leu Ser
 85 90 95
 Val Phe Asp Asn Leu Met Ala Val Leu Gln Ile Arg Asp Asp Leu Thr
 100 105 110
 Ser Glu Gln Arg Thr Asp Arg Ala Asn Glu Leu Met Glu Glu Phe His
 115 120 125
 Ile Glu His Leu Arg Asp Ser Leu Gly Gln Ala Leu Ser Gly Gly Glu
 130 135 140
 Arg Arg Arg Val Glu Ile Ala Arg Ala Leu Ala Ala Asn Pro Lys Phe
 145 150 155 160
 Ile Leu Leu Asp Glu Pro Phe Ala Gly Val Asp Pro Ile Ser Val Ile
 165 170 175
 Asp Ile Lys Arg Ile Ile Glu His Leu Arg Asp Ser Gly Leu Gly Val
 180 185 190
 Leu Ile Thr Asp His Asn Val Arg Glu Thr Leu Ala Val Cys Glu Arg
 195 200 205
 Ala Tyr Ile Val Ser Gln Gly His Leu Ile Ala His Gly Thr Pro Gln
 210 215 220
 Gln Ile Leu Glu Asp Glu His Val Lys Arg Val Tyr Leu Gly Glu Asp
 225 230 235 240
 Phe Arg Leu

<210> 7335

<211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 7335

Pro	Pro	Cys	Cys	Pro	Ile	Arg	Val	Leu	Trp	Trp	His	Val	Val	Leu	Ser
1				5					10					15	
Arg	Ser	Ile	Glu	Ser	Leu	Tyr	Pro	Phe	Arg	Arg	Leu	Thr	Ser	Val	Asn
			20					25					30		
Asn	Trp	Phe	Asp	Thr	Thr	Asp	Lys	Glu	Asp	Thr	Met	Gln	Leu	Asn	Ile
		35					40					45			
Thr	Gly	His	Asn	Val	Glu	Ile	Thr	Glu	Ala	Leu	Arg	Asp	Phe	Val	Asn
	50					55					60				
Thr	Lys	Phe	Ala	Lys	Leu	Glu	Gln	Tyr	Phe	Glu	Arg	Ile	Asn	Gln	Val
65					70					75					80
Tyr	Val	Val	Leu	Lys	Val	Glu	Lys	Val	Thr	His	Ile	Ser	Asp	Ala	Thr
				85					90					95	
Leu	His	Val	Asn	Gly	Gly	Glu	Leu	His	Ala	Ser	Ala	Glu	Gly	Gln	Asp
			100					105					110		
Met	Tyr	Ala	Ala	Ile	Asp	Gly	Leu	Ile	Asp	Lys	Leu	Ala	Arg	Gln	Leu
		115					120					125			
Asn	Lys	His	Lys	Asp	Lys	Leu	Lys	Gln	His						
	130					135									

<210> 7336
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 7336

Thr	Ser	Phe	Gly	Leu	His	Cys	Arg	Thr	Ala	Gly	Arg	Leu	Leu	Pro	Leu
1				5					10					15	
Thr	Arg	Lys	Glu	Arg	Ser	Val	Pro	Ser	Ser	His	Ala	Gly	Lys	Thr	Gln
			20					25					30		
Asn	Met	Thr	Val	Lys	Gln	Thr	Val	Glu	Ile	Thr	Asn	Lys	Leu	Gly	Met
		35					40					45			
His	Ala	Arg	Pro	Ala	Met	Lys	Leu	Phe	Glu	Leu	Met	Gln	Gly	Phe	Asp
	50					55					60				
Ala	Glu	Val	Leu	Leu	Arg	Asn	Asp	Glu	Gly	Thr	Glu	Ala	Glu	Ala	Asn
65					70					75					80
Ser	Val	Ile	Ala	Leu	Leu	Met	Leu	Asp	Ser	Ala	Lys	Gly	Arg	Gln	Ile
				85				90						95	
Glu	Val	Glu	Ala	Thr	Gly	Pro	Gln	Glu	Glu	Glu	Ala	Leu	Ala	Ala	Val
			100					105					110		
Ile	Ala	Leu	Phe	Asn	Ala	Gly	Phe	Asp	Glu	Asp					
		115					120								

<210> 7337
 <211> 297
 <212> PRT
 <213> Enterobacter cloacae

<400> 7337

Arg	Arg	Trp	Pro	Arg	Ile	Arg	Pro	Ala	Pro	Trp	Val	Lys	Thr	Gly	Gly
1				5					10					15	
Gly	Lys	Arg	Ile	Arg	Pro	Met	Ile	Ala	Ile	Leu	Ala	Ala	Arg	Ala	Val
			20					25					30		
Gly	Tyr	Gln	Gly	Asn	Ala	His	Val	Thr	Ile	Ala	Ala	Leu	Ile	Glu	Phe
		35					40					45			
Ile	His	Thr	Ala	Thr	Leu	Leu	His	Asp	Asp	Val	Val	Asp	Glu	Ser	Asp
	50						55					60			

Met Arg Arg Gly Lys Ala Thr Ala Asn Ala Ala Phe Gly Asn Ala Ala
 65 70 75 80
 Ser Val Leu Val Gly Asp Phe Ile Tyr Thr Arg Ala Phe Gln Met Met
 85 90 95
 Thr Ser Leu Gly Ser Leu Lys Val Leu Glu Val Met Ser Glu Ala Val
 100 105 110
 Asn Val Ile Ala Glu Gly Glu Val Leu Gln Leu Met Asn Val Asn Asp
 115 120 125
 Pro Asp Ile Thr Glu Glu Asn Tyr Met Arg Val Ile Tyr Ser Lys Thr
 130 135 140
 Ala Arg Leu Phe Glu Ala Ala Ala Gln Cys Ser Gly Ile Leu Ala Gly
 145 150 155 160
 Cys Ser Glu Ala Glu Lys Gly Leu Gln Asp Tyr Gly Arg Tyr Leu
 165 170 175
 Gly Thr Ala Phe Gln Leu Ile Asp Asp Leu Leu Asp Tyr Ser Ala Asp
 180 185 190
 Gly Glu Thr Leu Gly Lys Asn Val Gly Asp Asp Leu Asn Glu Gly Lys
 195 200 205
 Pro Thr Leu Pro Leu Leu His Ala Met Arg Asn Gly Thr Pro Glu Gln
 210 215 220
 Ala Lys Met Ile Arg Glu Ala Ile Glu Gln Gly Asn Gly Arg His Leu
 225 230 235 240
 Leu Glu Pro Val Leu Glu Thr Met Ala Ile Cys Gly Ser Leu Glu Trp
 245 250 255
 Thr Arg Gln Arg Ala Glu Glu Glu Ala Asp Lys Ala Ile Ala Ala Ile
 260 265 270
 Gln Val Ile Pro Asp Ser Pro Trp Arg Asp Ala Leu Ile Gly Leu Ala
 275 280 285
 His Ile Ala Val Gln Arg Asp Arg
 290 295

<210> 7338

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7338

Cys Cys Leu Phe Thr Arg Asn Asp Val Asp Asp Asn Glu His Lys Asp
 1 5 10 15
 Ser Ile Met Asp Thr Lys Phe Ile Asp Trp His Ser Ala Asp Ile Ile
 20 25 30
 Ala Ala Leu Arg Lys Lys Gly Thr Ser Leu Ala Ala Glu Ser Arg Arg
 35 40 45
 His Gly Leu Ser Ser Ser Thr Leu Ala Asn Ala Leu Thr Arg Pro Trp
 50 55 60
 Pro Lys Gly Glu Leu Ile Ile Ala Thr Ala Leu Asp Thr His Pro Trp
 65 70 75 80
 Val Ile Trp Pro Ser Arg Tyr His Asp Pro Ile Thr His Glu Phe Ile
 85 90 95
 Asp Arg Thr Arg Met Met Arg Gln Ser Lys Thr Lys Lys Ala His Gln
 100 105 110
 Asp

<210> 7339

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7339

Arg Val Asp Leu Ser Tyr Gly Trp Arg Cys Cys Thr Gly Ser Arg His

1				5					10				15
Phe	Ser	Leu	Gly	Lys	Arg	Lys	Arg	Ile	Met	Ser	Gln	Ile	Glu
			20					25					30
Pro	Gly	Phe	Asp	Phe	Gln	Lys	Ala	Gly	Lys	Asp	Val	Leu	Glu
		35					40					45	Ile
Arg	Glu	Gly	Leu	Ala	Gln	Leu	Asp	Gln	Tyr	Ile	Asn	Gln	Asp
	50					55					60		Phe
Leu	Ala	Cys	Glu	Lys	Met	Phe	Tyr	Cys	Ala	Gly	Lys	Val	Val
65					70					75			80
Gly	Met	Gly	Lys	Ser	Gly	His	Ile	Gly	Arg	Lys	Met	Ala	Ala
				85					90				95
Ala	Ser	Thr	Gly	Thr	Ser	Ser	Phe	Phe	Val	His	Pro	Gly	Glu
			100					105					110
His	Gly	Asp	Leu	Gly	Met	Val	Thr	Pro	Gln	Asp	Val	Val	Ile
		115					120					125	Ala
Ser	Asn	Ser	Gly	Glu	Ser	Asn	Glu	Ile	Leu	Ala	Leu	Ile	Pro
	130					135					140		Val
Lys	Arg	Leu	His	Val	Pro	Leu	Ile	Cys	Met	Thr	Ser	Arg	Pro
145					150				155				Glu
Ser	Met	Ala	Arg	Ala	Ala	Asp	Ile	His	Leu	Cys	Val	Lys	Val
				165					170				175
Glu	Ala	Cys	Pro	Leu	Gly	Leu	Ala	Pro	Thr	Ser	Ser	Thr	Thr
		180						185					190
Leu	Val	Met	Gly	Asp	Ala	Leu	Ala	Val	Ala	Leu	Leu	Glu	Ala
		195					200					205	Arg
Phe	Thr	Pro	Glu	Asp	Phe	Ala	Leu	Ser	His	Pro	Gly	Gly	Ala
	210				215					220			Leu
Arg	Lys	Leu	Leu	Leu	Arg	Val	Asn	Asp	Ile	Met	His	Thr	Gly
225					230				235				Asp
Ile	Pro	His	Val	Ser	Lys	Glu	Ala	Ser	Leu	Arg	Asp	Ala	Leu
				245					250				255
Ile	Thr	Arg	Lys	Asn	Leu	Gly	Met	Thr	Val	Ile	Cys	Asp	Asp
		260					265					270	Leu
Lys	Ile	Gln	Gly	Ile	Phe	Thr	Asp	Gly	Asp	Leu	Arg	Arg	Val
		275					280					285	Phe
Met	Gly	Val	Asp	Val	Arg	Thr	Leu	Gly	Ile	Ala	Asp	Val	Met
	290					295				300			Thr
Gly	Gly	Ile	Arg	Val	Arg	Pro	Gly	Thr	Leu	Ala	Val	Asp	Val
305					310				315				Leu
Leu	Met	Gln	Ser	Arg	His	Ile	Thr	Ser	Val	Met	Val	Ala	Asp
				325					330				Gly
Gln	Leu	Leu	Gly	Val	Val	His	Met	His	Asp	Leu	Leu	Arg	Ala
			340					345					350
Val													

<210> 7340

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7340

Arg	Leu	Gly	Glu	Ile	Met	Ile	Asn	Asn	Asp	Ser	Ala	Leu	Gln	Leu	Ser
1				5					10					15	
Asn	Val	Leu	Asn	Gln	Asp	Cys	Thr	Arg	Ser	Gly	Val	His	Cys	Gln	Ser
		20						25					30		
Lys	Lys	Arg	Ala	Leu	Glu	Ile	Ile	Ser	Glu	Leu	Ala	Ala	Lys	Gln	Leu
		35					40					45			
Gly	Leu	Pro	Pro	Gln	Ile	Val	Phe	Glu	Ala	Ile	Leu	Thr	Arg	Glu	Lys
	50				55					60					
Met	Gly	Ser	Thr	Gly	Ile	Gly	Asn	Gly	Ile	Ala	Ile	Pro	His	Gly	Lys

65					70					75				80	
Leu	Glu	Glu	Asp	Thr	Leu	Arg	Ala	Val	Gly	Val	Phe	Val	Gln	Leu	Glu
				85					90					95	
Thr	Pro	Ile	Ala	Phe	Asp	Ala	Ile	Asp	Asn	Gln	Pro	Val	Asp	Leu	Leu
			100					105					110		
Phe	Ala	Leu	Leu	Val	Pro	Ala	Asp	Gln	Thr	Lys	Thr	His	Leu	His	Thr
		115					120					125			
Leu	Ser	Leu	Val	Ala	Lys	Arg	Leu	Ala	Asp	Lys	Thr	Ile	Cys	Arg	Arg
	130					135					140				
Leu	Arg	Ser	Ala	Gln	Ser	Asp	Glu	Glu	Leu	Tyr	Gln	Ile	Ile	Thr	Glu
145					150					155					160
Ala	Glu	Gly	Asn	Gln	Asp	Glu	Ala								
				165											

<210> 7341

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 7341

Ser	Gly	Lys	Gly	Leu	Gln	Asn	Gly	Cys	Pro	Glu	Glu	Lys	Arg	Asn	Met
1				5				10						15	
Val	Leu	Met	Ile	Val	Ser	Gly	Arg	Ser	Gly	Ser	Gly	Lys	Ser	Val	Ala
			20					25					30		
Leu	Arg	Ala	Leu	Glu	Asp	Met	Gly	Phe	Tyr	Cys	Val	Asp	Asn	Leu	Pro
		35					40					45			
Val	Val	Leu	Leu	Pro	Asp	Leu	Ala	Arg	Thr	Leu	Ala	Asp	Arg	Gln	Ile
	50					55					60				
Ser	Ala	Ala	Val	Ser	Ile	Asp	Val	Arg	Asn	Met	Pro	Glu	Ser	Pro	Glu
65					70					75					80
Ile	Phe	Glu	Gln	Ala	Met	Asn	Ser	Leu	Pro	Glu	Cys	Phe	Ser	Pro	Gln
			85					90						95	
Leu	Leu	Phe	Leu	Asp	Ala	Asp	Arg	Asn	Thr	Leu	Ile	Arg	Arg	Tyr	Ser
		100					105						110		
Asp	Thr	Arg	Arg	Leu	His	Pro	Leu	Ser	Ser	Lys	Asn	Leu	Ser	Leu	Glu
	115						120					125			
Ser	Ala	Ile	Asp	Lys	Glu	Ser	Asp	Leu	Leu	Glu	Pro	Leu	Arg	Ser	Arg
	130					135					140				
Ala	Asp	Leu	Ile	Val	Asp	Thr	Ser	Glu	Met	Ser	Val	His	Glu	Leu	Ala
145					150					155					160
Glu	Met	Leu	Arg	Thr	Arg	Leu	Leu	Gly	Lys	Arg	Glu	Arg	Glu	Leu	Thr
			165					170						175	
Met	Val	Phe	Glu	Ser	Phe	Gly	Phe	Lys	His	Gly	Ile	Pro	Ile	Asp	Ala
		180					185						190		
Asp	Tyr	Val	Phe	Asp	Val	Arg	Phe	Leu	Pro	Asn	Pro	His	Trp	Asp	Pro
	195						200					205			
Lys	Leu	Arg	Pro	Met	Thr	Gly	Leu	Asp	Lys	Pro	Val	Ala	Ala	Phe	Leu
	210					215					220				
Asp	Arg	His	Thr	Glu	Val	His	Asn	Phe	Ile	Tyr	Gln	Thr	Arg	Ser	Tyr
225					230					235					240
Leu	Glu	Leu	Trp	Leu	Pro	Met	Leu	Glu	Thr	Asn	Asn	Arg	Ser	Tyr	Leu
			245					250						255	
Thr	Val	Ala	Ile	Gly	Cys	Thr	Gly	Gly	Lys	His	Arg	Ser	Val	Tyr	Ile
		260					265						270		
Ala	Glu	Gln	Leu	Ala	Asp	Tyr	Phe	Arg	Ser	Arg	Gly	Lys	Asn	Val	Gln
	275						280					285			
Ser	Arg	His	Arg	Thr	Leu	Glu	Lys	Arg	Lys	Thr					
	290					295					300				

<210> 7342

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 7342

Gly	Glu	Arg	Ala	Ile	Asp	Met	Ser	Lys	Thr	Arg	Arg	Trp	Val	Ile	Ile
1				5					10					15	
Leu	Leu	Ala	Leu	Val	Ala	Leu	Ile	Leu	Ile	Gly	Val	Asn	Leu	Ala	Asp
			20					25					30		
Arg	Asp	Asp	Thr	Gln	Ala	Glu	Val	Val	Asn	Thr	Ser	Asp	Pro	Thr	Tyr
			35					40				45			
Lys	Ser	Asp	His	Ser	Asp	Thr	Val	Val	Tyr	Ser	Pro	Glu	Gly	Ala	Leu
	50					55				60					
Asn	Tyr	Arg	Leu	Val	Ala	Gln	His	Val	Glu	Tyr	Phe	Ser	Asp	Asp	Gly
65					70					75					80
Thr	Ser	Trp	Phe	Thr	Gln	Pro	Val	Leu	Thr	Thr	Phe	Asp	Thr	Asp	Lys
				85					90					95	
Val	Pro	Thr	Trp	Ser	Ile	Lys	Ser	Asp	Arg	Ala	Lys	Leu	Thr	Asn	Asp
			100					105					110		
Arg	Met	Leu	Tyr	Leu	Tyr	Gly	His	Val	Glu	Val	Asn	Ala	Leu	Thr	Ala
		115				120						125			
Asp	Ala	Gln	Leu	Arg	Lys	Ile	Thr	Thr	Asp	Asn	Ala	Gln	Ile	Asn	Leu
	130					135					140				
Val	Thr	Gln	Asp	Val	Thr	Ser	Gln	Asp	Leu	Val	Thr	Leu	Tyr	Gly	Thr
145					150					155					160
Thr	Phe	Asn	Ser	Ser	Gly	Leu	Arg	Met	Arg	Gly	Asn	Leu	Arg	Ser	Lys
				165				170						175	
Asn	Ala	Glu	Leu	Ile	Glu	Lys	Val	Arg	Thr	Ser	Tyr	Glu	Ile	Gln	Asn
			180					185					190		
Lys	Gln	Thr	Gln	Pro											
			195												

<210> 7343

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 7343

Arg	Leu	Ser	His	Ala	Glu	Pro	Glu	Lys	Asn	Ala	Leu	Asn	Met	Lys	Gln
1				5					10					15	
Gly	Leu	Gln	Leu	Arg	Leu	Ser	Gln	Gln	Leu	Ala	Met	Thr	Pro	Gln	Leu
			20					25					30		
Gln	Gln	Ala	Ile	Arg	Leu	Leu	Gln	Leu	Ser	Thr	Leu	Glu	Leu	Gln	Gln
		35					40					45			
Glu	Leu	Gln	Gln	Ala	Leu	Asp	Ser	Asn	Pro	Leu	Leu	Glu	Gln	Thr	Asp
		50				55					60				
Leu	His	Asp	Glu	Val	Asp	Ala	Gln	Gln	Thr	Gln	Asp	Thr	Glu	Thr	Leu
65					70					75					80
Asp	Ser	Val	Asp	Ala	Leu	Glu	Gln	Lys	Glu	Met	Pro	Asp	Glu	Leu	Pro
				85					90					95	
Leu	Asp	Ala	Ser	Trp	Asp	Glu	Ile	Tyr	Thr	Ala	Gly	Thr	Pro	Ser	Gly
			100					105					110		
Thr	Arg	Ala	Asp	Tyr	Gln	Asp	Asp	Glu	Leu	Pro	Val	Tyr	Gln	Gly	Glu
		115				120						125			
Thr	Thr	Gln	Ser	Leu	Gln	Asp	Tyr	Leu	Met	Trp	Gln	Val	Glu	Leu	Thr
	130					135					140				
Pro	Phe	Ser	Asp	Thr	Asp	Arg	Ala	Ile	Ala	Thr	Ser	Ile	Val	Asp	Ala
145					150					155					160
Val	Asp	Asp	Thr	Gly	Tyr	Leu	Thr	Val	Thr	Leu	Asp	Glu	Ile	Leu	Glu
				165				170						175	
Ser	Ile	Gly	Asp	Asp	Glu	Ile	Glu	Leu	Glu	Glu	Ile	Glu	Ala	Val	Leu
			180					185					190		

Lys Arg Val Gln Arg Phe Asp Pro Ile Gly Val Ala Ala Lys Asp Leu
 195 200 205
 Arg Asp Cys Leu Leu Ile Gln Leu Ser Gln Phe Ala Lys Glu Thr Pro
 210 215 220
 Trp Ile Asp Glu Ala Arg Leu Ile Ile Ser Asp His Leu Asp Leu Leu
 225 230 235 240
 Ala Asn His Asp Phe Arg Thr Leu Met Arg Val Thr Arg Leu Lys Glu
 245 250 255
 Glu Val Leu Lys Glu Ala Val Asn Leu Ile Gln Ser Leu Asp Pro Arg
 260 265 270
 Pro Gly Gln Ser Ile Gln Thr Ser Glu Pro Glu Tyr Val Ile Pro Asp
 275 280 285
 Val Leu Val Arg Lys His Asn Gly Arg Trp Val Val Glu Leu Asn Ala
 290 295 300
 Asp Ser Ile Pro Arg Leu Gln Ile Asn Gln Gln Tyr Ala Ser Met Cys
 305 310 315 320
 Thr Ser Ala Arg Asn Asp Ala Asp Asn Gln Tyr Ile Arg Ser Asn Leu
 325 330 335
 Gln Glu Ala Arg Trp Leu Ile Lys Ser Leu Glu Ser Arg Asn Asp Thr
 340 345 350
 Leu Leu Arg Val Ser Arg Cys Ile Val Glu Gln Gln Ala Phe Phe
 355 360 365
 Glu Gln Gly Glu Glu Phe Met Lys Pro Met Val Leu Ala Asp Ile Ala
 370 375 380
 Gln Ala Val Glu Met His Glu Ser Thr Ile Ser Arg Val Thr Thr Gln
 385 390 395 400
 Lys Tyr Leu His Ser Pro Arg Gly Ile Phe Glu Leu Lys Tyr Phe Phe
 405 410 415
 Ser Ser His Val Asn Thr Glu Gly Gly Gly Glu Ala Ser Ser Thr Ala
 420 425 430
 Ile Arg Ala Leu Val Lys Lys Leu Ile Ala Ala Glu Asn Pro Ala Lys
 435 440 445
 Pro Leu Ser Asp Ser Lys Leu Thr Thr Met Leu Ser Asp Gln Gly Ile
 450 455 460
 Met Val Ala Arg Arg Thr Val Ala Lys Tyr Arg Glu Ser Leu Ser Ile
 465 470 475 480
 Pro Pro Ser Asn Gln Arg Lys Gln Leu Val
 485 490

<210> 7344

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7344

Ile Asp Leu Ser Ala Asp Ser Gly Ser Ser Leu Met Lys Thr Pro Val
 1 5 10 15
 Met Gln Val Ala Leu Ser Val Met Lys Thr Ala Ile Pro Leu Val Leu
 20 25 30
 Leu Thr Met Ala Ile Gly Glu Trp Val Ala Pro Gln Gly Glu Gln Met
 35 40 45
 Ala Arg Asn Tyr Arg Ala Gln Ala Met Tyr Gly Gly Ser Leu Leu Ser
 50 55 60
 Thr Gln Gln Gly Leu Trp Ala Lys Asp Gly Gln Asn Phe Val Tyr Ile
 65 70 75 80
 Glu Arg Val Lys Gly Asp Asp Glu Leu Gly Gly Val Ser Ile Tyr Ala
 85 90 95
 Phe Asn Asn Asp Arg Arg Leu Gln Ser Val Arg Tyr Ala Ala Ser Ala
 100 105 110
 Lys Phe Asp Ala Asn Asn Lys Leu Trp Arg Leu Ser Gln Val Asp Glu
 115 120 125

Ser Asp Leu Thr Asn Pro Lys Gln Ile Thr Gly Ser Gln Thr Val Ser
 130 135 140
 Gly Thr Trp Lys Thr Asn Leu Thr Pro Asp Lys Leu Gly Val Val Ala
 145 150 155 160
 Leu Asp Pro Asp Ala Leu Ser Ile Ser Gly Leu His Asn Tyr Val Lys
 165 170 175
 Tyr Leu Lys Ser Ser Gly Gln Asp Ala Gly Arg Tyr Gln Leu Asn Met
 180 185 190
 Trp Ser Lys Ile Phe Gln Pro Leu Ser Val Ala Val Met Met Leu Met
 195 200 205
 Ala Leu Ser Phe Ile Phe Gly Pro Leu Arg Ser Val Pro Met Gly Val
 210 215 220
 Arg Val Val Thr Gly Ile Ser Phe Gly Phe Val Phe Tyr Val Leu Asp
 225 230 235 240
 Gln Ile Phe Gly Pro Leu Thr Leu Val Tyr Gly Ile Pro Pro Ile Ile
 245 250 255
 Gly Ala Leu Leu Pro Ser Ala Ser Phe Phe Leu Ile Ser Leu Trp Met
 260 265 270
 Leu Leu Lys Arg Ser
 275

<210> 7345

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7345

Lys Ile Lys Lys Ser Thr Ser Arg Pro Glu Trp Thr Met Cys Ser Ala
 1 5 10 15
 Ser Arg Trp Arg Tyr Leu Pro Leu Thr Ala Met Ile Lys Lys Phe Trp
 20 25 30
 Asp Thr Cys Asp Glu Glu Glu Ser Thr Met Thr Ser Val Asp Ser Ala
 35 40 45
 Lys Ala Gln Thr Ile Leu Asp Thr Ala Met Leu Glu Gln Tyr Ile Asp
 50 55 60
 Leu Val Gly Pro Lys Leu Ile Thr Asp Gly Leu Ala Val Phe Glu Lys
 65 70 75 80
 Met Met Pro Gly Tyr Leu Asn Val Leu Glu Ser Asn Leu Thr Ala Arg
 85 90 95
 Asp Gln Lys Gly Ile Val Glu Glu Gly His Lys Ile Lys Gly Ala Ala
 100 105 110
 Gly Ser Val Gly Leu Arg His Leu Gln Gln Leu Gly Gln Gln Ile Gln
 115 120 125
 Ser Pro Asp Leu Pro Ala Trp Glu Asp Asn Val Gly Asp Trp Val Glu
 130 135 140
 Glu Met Lys Gln Glu Trp Gln Asn Asp Val Ala Val Leu Lys Ala Trp
 145 150 155 160
 Val Asp Ala Arg Lys Lys
 165

<210> 7346

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7346

Lys Ala Gly Gly Gln Ser Ala Gly Ser Tyr Arg Met Ser Arg Lys Leu
 1 5 10 15
 Ser Pro Gly Gly Trp Leu Lys Arg Ile Leu Leu Arg Ile Val Leu Val
 20 25 30
 Leu Ala Val Phe Trp Gly Gly Gly Ile Ala Leu Phe Ser Ile Leu Pro

Val	Pro	35	Phe	Ser	Ala	Val	Met	40	Ala	Glu	Arg	Gln	Ile	45	Ser	Ala	Trp	Leu
	50						55						60					
Ser	Gly	Asp	Phe	Gly	Tyr	Val	Ala	His	Ser	Asp	Trp	Val	Gly	Met	Asp			
65					70					75					80			
Glu	Ile	Ser	Pro	Trp	Met	Gly	Leu	Ala	Val	Ile	Ala	Ala	Glu	Asp	Gln			
				85					90					95				
Lys	Phe	Pro	Glu	His	Trp	Gly	Phe	Asp	Val	Ala	Ala	Ile	Glu	Lys	Ala			
			100					105					110					
Leu	Asp	His	Asn	Glu	Arg	His	Glu	Asn	Arg	Val	Arg	Gly	Ala	Ser	Thr			
		115					120					125						
Leu	Ser	Gln	Gln	Thr	Val	Lys	Asn	Leu	Phe	Leu	Trp	Asp	Gly	Arg	Ser			
	130					135					140							
Trp	Val	Arg	Lys	Gly	Leu	Glu	Ala	Gly	Leu	Thr	Leu	Gly	Val	Glu	Thr			
145					150					155					160			
Val	Trp	Ser	Lys	Lys	Arg	Ile	Leu	Thr	Val	Tyr	Leu	Asn	Ile	Ala	Glu			
				165				170						175				
Phe	Gly	Asp	Gly	Val	Phe	Gly	Val	Glu	Ala	Ala	Ser	Gln	Arg	Tyr	Phe			
		180						185					190					
Gly	Lys	Pro	Ala	Ser	Arg	Leu	Thr	Met	Ser	Glu	Ala	Ala	Leu	Leu	Ala			
	195						200					205						
Ala	Val	Leu	Pro	Asn	Pro	Leu	Arg	Phe	Lys	Ala	Ser	Thr	Pro	Ser	Gly			
	210					215					220							
Tyr	Val	Arg	Ser	Arg	Gln	Ala	Trp	Ile	Met	Arg	Gln	Met	Arg	Gln	Leu			
225					230					235					240			
Gly	Gly	Glu	Gly	Phe	Met	Glu	Arg	Asn	Asn	Leu	Met							
				245				250										

<210> 7347

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 7347

Gly	Val	Lys	Pro	Leu	Met	Leu	Leu	Asn	Ala	Leu	Ala	Gly	Leu	Gly	His
1				5				10					15		
Arg	Gly	Leu	Lys	Thr	Ile	Ser	Thr	Phe	Gly	Arg	Ala	Gly	Leu	Met	Leu
		20						25					30		
Phe	Asn	Ala	Leu	Val	Gly	Lys	Pro	Glu	Phe	Arg	Lys	His	Ala	Pro	Leu
	35					40					45				
Leu	Val	Arg	Gln	Leu	Tyr	Asn	Val	Gly	Val	Leu	Ser	Met	Leu	Ile	Ile
	50				55					60					
Ile	Val	Ser	Gly	Leu	Phe	Ile	Gly	Met	Val	Leu	Gly	Leu	Gln	Gly	Tyr
65				70				75					80		
Leu	Val	Leu	Thr	Thr	Tyr	Ser	Ala	Glu	Thr	Ser	Leu	Gly	Met	Leu	Val
			85					90					95		
Ala	Leu	Ser	Leu	Leu	Arg	Glu	Leu	Gly	Pro	Val	Val	Ala	Ala	Leu	Leu
			100					105					110		
Phe	Ala	Gly	Arg	Ala	Gly	Ser	Ala	Leu	Thr	Ala	Glu	Ile	Gly	Leu	Met
	115					120					125				
Arg	Ala	Thr	Glu	Gln	Leu	Ser	Ser	Met	Glu	Met	Met	Ala	Val	Asp	Pro
	130				135						140				
Leu	Arg	Arg	Val	Ile	Ser	Pro	Arg	Phe	Trp	Ala	Gly	Val	Ile	Ser	Leu
145				150					155					160	
Pro	Leu	Leu	Thr	Ile	Leu	Phe	Val	Ala	Val	Gly	Ile	Trp	Gly	Gly	Ala
			165					170					175		
Leu	Val	Gly	Val	Asn	Trp	Lys	Gly	Ile	Asp	Ala	Gly	Phe	Phe	Trp	Ser
		180					185					190			
Ala	Met	Gln	Asp	Ala	Ile	Asp	Leu	Arg	Met	Asp	Leu	Val	Asn	Cys	Leu
	195					200					205				
Ile	Lys	Ser	Val	Val	Phe	Ala	Val	Thr	Val	Thr	Trp	Ile	Ala	Leu	Phe

210		215		220
Asn Gly Tyr Asp Ala Ile	Pro Thr Ser Ala Gly Ile Ser Arg Ala Thr			
225	230	235		240
Thr Arg Thr Val Val His Ser Ser Leu Ala Val Leu Gly Leu Asp Phe				
	245	250		255
Val Leu Thr Ala Leu Met Phe Gly Asn				
	260	265		

<210> 7348
 <211> 119
 <212> PRT
 <213> Enterobacter cloacae

<400> 7348

Trp Pro Asp Gly Ser Ala Ser Val His Leu Ser Ser Glu Asn Tyr Pro				
1	5	10	15	
Gly Arg Glu Glu Val Met Ser Gln Gln Leu Ser Trp Ala Arg Asp Gly				
	20	25	30	
Glu Thr Leu Thr Leu Thr Gly Glu Leu Asp Gln Asp Leu Leu Asn Pro				
	35	40	45	
Leu Trp Asp Ala Arg His Asn Ala Met Gln Gly Val Thr Leu Ile Asp				
	50	55	60	
Leu His Gly Val Thr Arg Val Asp Thr Ala Gly Ile Ala Leu Leu Ala				
65	70	75	80	
His Leu Val Ala Thr Gly Lys Lys Gln Gly Ser Ser Val Thr Leu Thr				
	85	90	95	
Gly Val Ser Asp Asn Val Ile Thr Leu Ala Gln Leu Tyr Asn Leu Pro				
	100	105	110	
Glu Asp Val Leu Pro Arg				
	115			

<210> 7349
 <211> 127
 <212> PRT
 <213> Enterobacter cloacae

<400> 7349

Phe Phe Gln Tyr Val Thr Ser Glu Ser Pro Asp Ser Leu Arg Val Gly				
1	5	10	15	
Ala Phe Cys Leu Phe Lys Thr Ala Pro Leu Cys Ser Lys Met Leu Ser				
	20	25	30	
Leu Phe Ser Leu Ser Asp Asp Val Asp Pro Met Glu Asn Asn Glu Ile				
	35	40	45	
Gln Thr Val Leu Met Asn Ala Leu Ser Leu Gln Glu Ala His Val Ser				
	50	55	60	
Gly Asp Gly Ser His Phe Gln Val Ile Ala Val Gly Glu Met Phe Asp				
65	70	75	80	
Gly Met Ser Arg Val Lys Lys Gln Gln Ala Val Tyr Ala Pro Leu Met				
	85	90	95	
Glu Tyr Ile Ala Asp Asn Arg Ile His Ala Leu Ser Ile Lys Ala Phe				
	100	105	110	
Thr Pro Gln Glu Trp Ala Arg Asp Arg Lys Leu Asn Gly Phe				
	115	120	125	

<210> 7350
 <211> 234
 <212> PRT
 <213> Enterobacter cloacae

<400> 7350

Ser Glu Phe Leu Met Cys Phe Ser Glu Leu Leu Arg Arg Ile Val Arg

1				5					10				15
Met	Lys	Lys	Val	Gly	Val	Val	Leu	Ser	Gly	Cys	Gly	Val	Tyr
			20					25				30	Asp
Ser	Glu	Ile	His	Glu	Thr	Val	Leu	Thr	Leu	Leu	Ala	Leu	Ser
		35					40					45	Arg
Gly	Ala	Asp	Val	Ile	Cys	Phe	Ala	Pro	Asp	Lys	Thr	Gln	Ala
	50					55					60		Val
Met	Asn	His	Leu	Thr	Gly	Glu	Pro	Met	Ala	Glu	Ser	Arg	Asn
65					70					75			80
Ile	Glu	Ala	Ala	Arg	Ile	Val	Arg	Gly	Asp	Ile	His	Pro	Leu
				85				90					95
Ala	Asp	Ala	Ala	Glu	Leu	Asp	Ala	Leu	Ile	Val	Pro	Gly	Gly
			100					105				110	Phe
Ala	Ala	Lys	Asn	Leu	Ser	Thr	Phe	Ala	Thr	Glu	Gly	Ala	Ala
		115					120				125		Cys
Val	Asp	Pro	Asp	Leu	Lys	Ala	Leu	Ser	Leu	Ala	Met	His	Ala
	130					135					140		Ala
Lys	Pro	Gln	Gly	Phe	Ile	Cys	Ile	Ala	Pro	Ala	Met	Leu	Pro
145					150				155				160
Phe	Asp	Phe	Pro	Leu	Arg	Leu	Thr	Ile	Gly	Thr	Asp	Ile	Asp
				165					170				175
Glu	Ile	Ile	Glu	Asp	Met	Gly	Gly	Glu	His	Val	Pro	Cys	Pro
			180					185				190	Val
Asp	Ile	Val	Val	Asp	Glu	Asp	Asn	Lys	Ile	Ile	Thr	Thr	Pro
	195						200				205		Ala
Met	Leu	Ala	Gln	Asn	Ile	Ala	Glu	Ala	Ala	Ala	Gly	Ile	Glu
	210					215					220		Lys
Val	Asp	Arg	Val	Leu	Val	Leu	Thr	Glu					Leu
225					230								

<210> 7351

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7351

Cys	Leu	Gly	Ile	Glu	Phe	Met	Gln	Thr	Arg	Lys	Asn	Glu	Ile
1			5						10				15
Gly	Val	Phe	Leu	Leu	Ala	Leu	Leu	Ala	Ala	Leu	Phe	Ile	Cys
			20					25				30	Leu
Arg	Ala	Ala	Asp	Ile	Thr	Ser	Val	Arg	Ala	Glu	Pro	Thr	Tyr
		35					40					45	Arg
Tyr	Ala	Thr	Phe	Asp	Asn	Ile	Gly	Gly	Leu	Lys	Ala	Arg	Ser
	50				55					60			Pro
Arg	Ile	Gly	Gly	Val	Val	Ile	Gly	Arg	Val	Ala	Asp	Ile	Thr
65				70					75				80
Glu	Lys	Thr	Tyr	Leu	Pro	Arg	Val	Ala	Met	Asp	Ile	Glu	Glu
			85					90					95
Asn	His	Ile	Pro	Asp	Thr	Ser	Ser	Leu	Ser	Ile	Arg	Thr	Ser
			100					105				110	Gly
Leu	Gly	Glu	Gln	Tyr	Leu	Ala	Leu	Asn	Val	Gly	Phe	Glu	Asp
	115						120					125	Pro
Leu	Gly	Thr	Thr	Ile	Leu	Lys	Asp	Gly	Ser	Val	Ile	Gln	Asp
	130					135				140			Thr
Ser	Ala	Met	Val	Leu	Glu	Asp	Met	Ile	Gly	Gln	Phe	Leu	Tyr
145					150				155				160
Lys	Gly	Asp	Asp	Lys	Lys	Ser	Asp	Asp	Ala	Pro	Ala	Gln	Ser
			165					170					175
His	Thr	Asn	Val	Glu	Pro	Thr	Pro	Gly	Ala	Thr	Asn		
			180					185					

<210> 7352
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 7352
 Phe Gln Glu Lys Leu Phe Met Phe Lys Arg Leu Leu Met Val Ala Met
 1 5 10 15
 Leu Val Ile Ala Pro Leu Thr Ala Ala His Ala Ala Asp Gln Ser Asn
 20 25 30
 Pro Tyr Lys Leu Met Asn Glu Ala Ala Lys Lys Thr Phe Asp Arg Leu
 35 40 45
 Lys Asn Glu Gln Pro Lys Ile Arg Ser Asn Pro Asp Tyr Leu Arg Asp
 50 55 60
 Val Val Asp Gln Glu Leu Leu Pro Tyr Val Gln Ile Lys Tyr Ala Gly
 65 70 75 80
 Ala Leu Val Leu Gly Arg Tyr Tyr Lys Asp Ala Thr Pro Ala Gln Arg
 85 90 95
 Glu Ala Tyr Phe Ala Ala Phe Arg Glu Tyr Leu Lys Gln Ala Tyr Gly
 100 105 110
 Gln Ala Leu Ala Met Tyr His Gly Gln Thr Tyr Gln Ile Ala Pro Glu
 115 120 125
 Gln Pro Leu Gly Asp Ala Thr Ile Ile Pro Ile Arg Val Thr Ile Ile
 130 135 140
 Asp Pro Asn Gly Arg Pro Pro Val Arg Leu Asp Phe Gln Trp Arg Lys
 145 150 155 160
 Asn Ser Gln Thr Gly Asn Trp Gln Ala Tyr Asp Met Ile Ala Glu Gly
 165 170 175
 Val Ser Met Ile Thr Thr Lys Gln Asn Glu Trp Ser Asp Leu Leu Arg
 180 185 190
 Thr Lys Gly Ile Asp Gly Leu Thr Ala Gln Leu Gln Ser Ile Ser Arg
 195 200 205
 Gln Lys Ile Thr Leu Asp Glu Lys Lys
 210 215

<210> 7353
 <211> 659
 <212> PRT
 <213> Enterobacter cloacae

<400> 7353
 Val Leu Leu Ser Asp Lys Val Val Lys Gly Ser Ser Met Lys Gln Ile
 1 5 10 15
 Arg Met Leu Ala Gln Tyr Tyr Val Asp Leu Met Met Lys Leu Gly Leu
 20 25 30
 Val Arg Phe Ser Met Leu Leu Ala Leu Ala Leu Val Val Leu Ala Ile
 35 40 45
 Val Val Gln Met Ala Val Thr Met Val Leu His Gly Gln Val Glu Ser
 50 55 60
 Ile Asp Val Ile Arg Ser Ile Phe Phe Gly Leu Leu Ile Thr Pro Trp
 65 70 75 80
 Ala Val Tyr Phe Leu Ser Val Val Val Glu Gln Leu Glu Glu Ser Arg
 85 90 95
 Gln Arg Leu Ser Lys Leu Val Asp Lys Leu Glu Glu Met Arg Glu Arg
 100 105 110
 Asp Leu Lys Leu Asn Val Gln Leu Lys Asp Asn Ile Ala Gln Leu Asn
 115 120 125
 Gln Glu Ile Ser Asp Arg Glu Lys Ala Glu Ala Glu Arg Gln Thr Thr
 130 135 140
 Leu Glu Gln Leu Lys Ile Glu Met Lys Glu Arg Glu Val Thr Gln Ile
 145 150 155 160

Gln	Leu	Glu	Gln	Gln	Ser	Ser	Phe	Leu	Arg	Ser	Phe	Leu	Asp	Ala	Ser
				165					170					175	
Pro	Asp	Leu	Val	Phe	Tyr	Arg	Asn	Glu	Asp	Lys	Glu	Phe	Ser	Gly	Cys
			180					185						190	
Asn	Arg	Ala	Met	Glu	Leu	Leu	Thr	Gly	Lys	Ser	Glu	Lys	Gln	Leu	Ile
		195					200					205			
His	Leu	Lys	Pro	Gln	Asp	Val	Tyr	Ser	Glu	Glu	Ala	Ala	Ala	Lys	Val
	210					215					220				
Met	Glu	Thr	Asp	Glu	Lys	Val	Phe	Arg	His	Asn	Val	Ser	Leu	Thr	Tyr
225					230					235					240
Glu	Gln	Trp	Leu	Asp	Tyr	Pro	Asp	Gly	Arg	Lys	Ala	Cys	Phe	Glu	Ile
				245					250					255	
Arg	Lys	Val	Pro	Tyr	Tyr	Asp	Arg	Val	Gly	Lys	Arg	His	Gly	Leu	Met
			260					265						270	
Gly	Phe	Gly	Arg	Asp	Ile	Thr	Glu	Arg	Lys	Arg	Tyr	Gln	Asp	Ala	Leu
		275					280					285			
Glu	Arg	Ala	Ser	Arg	Asp	Lys	Thr	Thr	Phe	Ile	Ser	Thr	Ile	Ser	His
	290					295					300				
Glu	Leu	Arg	Thr	Pro	Leu	Asn	Gly	Ile	Val	Gly	Leu	Ser	Arg	Ile	Leu
305					310					315					320
Leu	Asp	Thr	Glu	Leu	Thr	Ser	Glu	Gln	Glu	Lys	Tyr	Leu	Lys	Thr	Ile
				325					330					335	
His	Val	Ser	Ala	Val	Thr	Leu	Gly	Asn	Ile	Phe	Asn	Asp	Ile	Ile	Asp
			340					345					350		
Met	Asp	Lys	Met	Glu	Arg	Arg	Lys	Val	Gln	Leu	Asp	Asn	Gln	Pro	Val
		355					360					365			
Asp	Phe	Thr	Gly	Phe	Leu	Ala	Asp	Leu	Glu	Asn	Leu	Ser	Gly	Leu	Gln
	370					375					380				
Ala	Gln	Gln	Lys	Gly	Leu	Ser	Phe	Val	Met	Glu	Pro	Thr	Leu	Pro	Leu
385					390					395					400
Pro	His	Lys	Val	Val	Thr	Asp	Gly	Thr	Arg	Leu	Arg	Gln	Ile	Leu	Trp
				405					410					415	
Asn	Leu	Ile	Ser	Asn	Ala	Val	Lys	Phe	Thr	Gln	Lys	Gly	Gln	Val	Ala
			420					425					430		
Val	Arg	Ile	Arg	Tyr	Asp	Glu	Gly	Asp	Met	Leu	His	Phe	Glu	Val	Glu
		435					440					445			
Asp	Ser	Gly	Ile	Gly	Ile	Pro	Gln	Glu	Glu	Gln	Asp	Lys	Ile	Phe	Ala
	450					455					460				
Met	Tyr	Tyr	Gln	Val	Lys	Asp	Ser	His	Gly	Gly	Lys	Pro	Ala	Thr	Gly
465					470					475					480
Thr	Gly	Ile	Gly	Leu	Ala	Val	Ser	Lys	Arg	Leu	Ala	Lys	Ser	Met	Gly
				485					490					495	
Gly	Asp	Ile	Thr	Val	Ala	Ser	Gln	Pro	Gly	Lys	Gly	Ser	Thr	Phe	Thr
			500					505					510		
Leu	Thr	Val	His	Ala	Pro	Ala	Val	Ala	Glu	Glu	Val	Glu	Asp	Thr	Phe
		515					520					525			
Glu	Asn	Asp	Asp	Met	Pro	Leu	Pro	Ala	Leu	His	Val	Leu	Leu	Val	Glu
	530					535					540				
Asp	Ile	Glu	Leu	Asn	Val	Ile	Val	Ala	Arg	Ser	Val	Leu	Glu	Lys	Leu
545					550					555					560
Gly	Asn	Ser	Val	Asp	Val	Ala	Met	Thr	Gly	Lys	Ala	Ala	Leu	Glu	Met
				565					570					575	
Phe	Thr	Pro	Gly	Glu	Tyr	Asp	Leu	Val	Leu	Leu	Asp	Ile	Gln	Leu	Pro
			580					585					590		
Asp	Met	Thr	Gly	Leu	Asp	Ile	Ser	Arg	Glu	Leu	Thr	Arg	Lys	Tyr	Ala
	595						600					605			
Pro	Asp	Glu	Leu	Pro	Pro	Leu	Val	Ala	Leu	Thr	Ala	Asn	Val	Leu	Lys
						615					620				
Asp	Lys	Lys	Glu	Tyr	Leu	Glu	Ala	Gly	Met	Asp	Asp	Val	Leu	Ser	Lys
625					630					635					640
Pro	Leu	Ala	Val	Pro	Ala	Pro	Asp	Gly	Asp	Asp	Gln	Glu	Val	Leu	Gly

645

650

655

Tyr Leu

<210> 7354

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7354

```

Met Ser Gln Thr Met Ala Asn Ile Val Asp Val Arg Gly Val Ser Phe
1      5      10      15
Ser Arg Gly Asn Arg Leu Ile Phe Asp Asp Ile Ser Leu Thr Val Pro
20      25      30
Arg Gly Lys Ile Thr Ala Ile Met Gly Pro Ser Gly Ile Gly Lys Thr
35      40      45
Thr Leu Leu Arg Leu Ile Gly Gly Gln Ile Pro Pro Asp Ser Gly Glu
50      55      60
Ile Leu Phe Asp Gly Glu Asn Val Pro Ala Met Ser Arg Ser Arg Leu
65      70      75      80
Tyr Thr Val Arg Lys Arg Met Ser Met Leu Phe Gln Ser Gly Ala Leu
85      90      95
Phe Thr Asp Met Asn Val Phe Asp Asn Val Ala Tyr Pro Leu Arg Glu
100     105     110
His Thr His Leu Pro Pro Ala Leu Leu His Ser Thr Val Met Met Lys
115     120     125
Leu Glu Ala Val Gly Leu Arg Gly Ala Ala Lys Leu Met Pro Ser Glu
130     135     140
Leu Ser Gly Gly Met Ala Arg Arg Ala Ala Leu Arg Ala Ile Ala
145     150     155     160
Leu Glu Pro Asp Leu Ile Met Phe Asp Glu Pro Phe Val Gly Gln Asp
165     170     175
Pro Ile Thr Met Gly Val Leu Val Lys Leu Ile Ser Glu Leu Asn Ser
180     185     190
Ala Leu Gly Val Thr Cys Val Val Val Ser His Asp Val Pro Glu Val
195     200     205
Leu Ser Ile Ala Asp Tyr Ala Tyr Ile Val Ala Asp Lys Lys Ile Val
210     215     220
Ala His Gly Ser Ala Gln Ala Leu Gln Glu Asn Gly Asp Pro Arg Val
225     230     235     240
Arg Gln Phe Leu Asp Gly Ile Ala Asp Gly Pro Val Pro Phe Arg Tyr
245     250     255
Pro Ala Gly Asp Tyr His Asp Asp Leu Leu Gly Ile Gly Ser
260     265     270

```

<210> 7355

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 7355

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Gly Arg Asn Ala Arg Ser Thr Val Glu Phe Ile Arg Glu Gln Thr Met
1      5      10      15
Asp Lys Phe Arg Val Gln Gly Pro Thr Arg Leu Gln Gly Glu Val Thr
20      25      30
Ile Ser Gly Ala Lys Asn Ala Ala Leu Pro Ile Leu Phe Ala Ala Leu
35      40      45
Leu Ala Glu Glu Pro Val Glu Ile Gln Asn Val Pro Lys Leu Lys Asp
50      55      60
Ile Asp Thr Thr Met Lys Leu Leu Gly Gln Leu Gly Thr Lys Val Glu
65      70      75      80

```


Arg Asn Gly Ser Val Trp Ile Asp Ala Ser Asn Val Asn Asn Phe Ser
 85 90 95
 Ala Pro Tyr Glu Leu Val Lys Thr Met Arg Ala Ser Ile Trp Ala Leu
 100 105 110
 Gly Pro Leu Val Ala Arg Phe Gly Gln Gly Gln Val Ser Leu Pro Gly
 115 120 125
 Gly Cys Ala Ile Gly Ala Arg Pro Val Asp Leu His Ile Phe Gly Leu
 130 135 140
 Glu Lys Leu Gly Ala Glu Ile Lys Leu Glu Glu Gly Tyr Val Lys Ala
 145 150 155 160
 Ser Val Asn Gly Arg Leu Lys Gly Ala His Ile Val Met Asp Lys Val
 165 170 175
 Ser Val Gly Ala Thr Val Thr Ile Met Ser Ala Ala Thr Leu Ala Glu
 180 185 190
 Gly Thr Thr Ile Ile Glu Asn Ala Ala Arg Glu Pro Glu Ile Val Asp
 195 200 205
 Thr Ala Asn Phe Leu Val Ala Leu Gly Ala Lys Ile Ser Gly Gln Gly
 210 215 220
 Thr Asp Arg Ile Thr Ile Glu Gly Val Glu Arg Leu Gly Gly Gly Val
 225 230 235 240
 Tyr Arg Val Leu Pro Asp Arg Ile Glu Thr Gly Thr Phe Leu Val Ala
 245 250 255
 Ala Ala Ile Ser Gly Gly Lys Ile Val Cys Arg Asn Ala Gln Pro Asp
 260 265 270
 Thr Leu Asp Ala Val Leu Ala Lys Leu Arg Asp Ala Gly Ala Asp Ile
 275 280 285
 Glu Ile Gly Glu Asp Trp Ile Ser Leu Asp Met His Gly Gln Arg Pro
 290 295 300
 Lys Ala Val Asn Val Arg Thr Ala Pro His Pro Ala Phe Pro Thr Asp
 305 310 315 320
 Met Gln Ala Gln Phe Thr Leu Leu Asn Leu Val Ala Glu Gly Thr Gly
 325 330 335
 Phe Ile Thr Glu Thr Ile Phe Glu Asn Arg Phe Met His Val Pro Glu
 340 345 350
 Leu Ile Arg Met Gly Ala His Ala Glu Ile Glu Ser Asn Thr Val Ile
 355 360 365
 Cys His Gly Val Glu Lys Leu Ser Gly Ala Gln Val Met Ala Thr Asp
 370 375 380
 Leu Arg Ala Ser Ala Ser Leu Val Leu Ala Gly Cys Ile Ala Glu Gly
 385 390 395 400
 Thr Thr Val Val Asp Arg Ile Tyr His Ile Asp Arg Gly Tyr Glu Arg
 405 410 415
 Ile Glu Asp Lys Leu Arg Ala Leu Gly Ala Asn Ile Glu Arg Val Lys
 420 425 430
 Gly Glu
 435

<210> 7356

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7356

Glu Asp His Ser Val Ile His Gly Ala Ala Phe Ala Pro Pro Pro Arg
 1 5 10 15
 Arg Tyr Arg Ala Glu Leu Glu Tyr Leu Met Lys Leu Ser Arg Gln Thr
 20 25 30
 Thr Ser Asp Thr Ser Val Asp Gly Arg Ser Arg Ala Tyr Ala Trp Gly
 35 40 45
 Arg Val His Tyr Phe Ile Ile Glu His Ala Pro Met Ala Glu Leu Val
 50 55 60

Ala Ile Asp Glu Leu Leu Glu Lys Ala Gly Trp Ser Asn Asp Gly Cys
 65 70 75 80
 Pro Asn Tyr Glu Lys Asp Asp Glu Phe Gly Asn Ala Gly Tyr Ser Cys
 85 90 95
 Gly Tyr Trp Ile Asp Ile Asp Ser Val Gly Ser Phe Lys Ala Asp Tyr
 100 105 110
 Lys Arg Leu Lys Gly Glu Ile Ser Ala His Ile Ala Ser Lys Ala Ala
 115 120 125
 Glu Val Glu Ile Arg Val Leu Asp Ser Met Ser Asp Lys Glu Cys Lys
 130 135 140
 Asp Val Ala Ser Val Ala Cys Thr Val Arg Arg Asp Leu Arg Thr Gln
 145 150 155 160
 Ser Glu Ser Leu His Ser Leu Arg Thr Ile Val Thr Val Asp His Tyr
 165 170 175
 Asn Pro Tyr Val Ile Thr Ser Arg Pro Leu Ser Ile Ser Ala Trp Thr
 180 185 190
 Leu Ile His Asp Cys Leu Lys Thr Gly Thr Ile Asn Asp Val Cys Ser
 195 200 205
 Arg Leu Ser Ser Leu Ile Leu His Ser Glu Ala Ala Ile Ala Arg Cys
 210 215 220
 Lys Gly Ser Ser Asp Tyr Ser Ser Glu His Ala Gln Leu Ser Phe Phe
 225 230 235 240
 Ala Gly Asn Asp Tyr Val Thr Arg Arg Thr Leu Val Asp Ala Ala His
 245 250 255
 Glu Glu Ala Leu Arg Met Asn Arg Arg Phe Asp Glu Arg Ile Ala Met
 260 265 270
 Asn Ala Asp Ser Asp Ala Arg Arg Leu Gln Cys Glu Phe Asn Leu Ser
 275 280 285
 Asn His Val Val Gln Arg Arg Thr Val Glu Ser Ala His Ile Gln Ala
 290 295 300
 Ile Asn Glu Asp Val Thr Arg Ser Gln Ala Glu Pro Arg Cys Pro Gly
 305 310 315 320
 Lys Leu Leu Leu Lys Met Thr Ser His Glu Glu Val Arg Asp Ser Leu
 325 330 335
 Ser Thr Cys
 340

<210> 7357

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 7357

Leu Gln Met Ser Leu Gln Val Ser His Tyr Asn Met Leu Arg Ala Ser
 1 5 10 15
 His Glu Val Ser Gln Lys Val Val Val Arg Thr Val Ile Thr Val Arg
 20 25 30
 Phe Val Pro Glu Ala Asp Phe Leu Lys Ile Leu Arg Ala Gln Gln Leu
 35 40 45
 Gly Ala Gly His Ile Lys Tyr Pro Gln Asn Tyr Arg Glu Tyr Leu Lys
 50 55 60
 Phe Leu
 65

<210> 7358

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7358

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His

1		5		10		15									
Ala	Lys	Val	Pro	Leu	Ile	Ala	Phe	Leu	Gly	Leu	Met	His	Leu	Arg	Ile
		20						25					30		
Ala	Leu	Leu	Leu	Phe	Val	Leu	Gly	Arg	Ala	Gly	Cys	Leu	Asn	Asp	Gly
		35					40					45			
Gly	Ile	Asp	Gln	Gly	Ala	Leu	Ser	His	His	Asp	Ala	Cys	Phe	Gly	Gln
	50					55				60					
Pro	Ala	Ile	Asp	Gly	Leu	Glu	Gln	Leu	Ala	Gly	Gln	Leu	Met	Leu	Leu
65					70					75					80
Gln	Gln	Val	Ala	Glu	Ile	His	Asp	Gly	Gly	Ala	Val	Arg	Gln	Gly	Ala
			85						90					95	
Ile	Gln	Gly													
			100												

<210> 7359

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 7359

1		5		10		15									
His	Gly	Phe	Gln	Arg	Ile	Arg	Ser	Pro	Ala	Ile	Thr	Ser	Leu	Gly	Val
			20					25					30		
Lys	Arg	Leu	Asp	Asp	Phe	His	His	Val	Leu	Pro	Trp	Gln	Asn	Leu	Leu
			35				40					45			
His	Thr	Gly	Gln	Glu	Asn	Leu	Phe	Ser	Gly	Leu	Thr	Ala	Leu	Thr	Ala
		50				55				60					
Glu	Phe	Thr	Val	Gly	Glu	Gly	Lys	Leu	Met	Thr	His	Asp	Glu	Pro	Cys
Ser	Met	Ala	Pro	Asp	Asp	Lys	His	Asp	Leu	Ile	Ser	Gly	Thr	Cys	Ser
65					70				75						80
His	Leu	Pro													

<210> 7360

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 7360

1		5		10		15									
Asn	Val	Pro	Arg	Gln	Phe	Ser	Gly	Gly	Phe	Phe	Met	Ile	Lys	Glu	Thr
			20					25					30		
Val	Thr	Met	Ser	His	Lys	Glu	Leu	Asp	Arg	Leu	His	Ile	Ile	Gln	Glu
Ser	Leu	Asn	Arg	His	Ile	Thr	Gln	Glu	Gln	Ala	Ala	Ala	Arg	Ile	Gly
		35					40					45			
Ile	Ser	Ile	Arg	Gln	Val	Lys	Arg	Leu	Val	Gln	Arg	Tyr	Arg	Asn	Glu
	50				55					60					
Gly	Pro	Ser	Gly	Leu	Val	Ser	Arg	Arg	Arg	Gly	Lys	Arg	Pro	Asn	Asn
65					70				75						80
Ser	Phe	Ser	Thr	Glu	Phe	Arg	Ala	Thr	Val	Ile	Ser	Leu	Leu	Lys	Gly
			85					90						95	
Arg	Tyr	Ala	Asp	Phe	Gly	Pro	Thr	Leu	Ala	Cys	Glu	Lys	Leu	Arg	Glu
			100					105					110		
Ile	His	Gly	Leu	Cys	Leu	Ser	Ile	Glu	Thr	Leu	Arg	Lys	Trp	Met	Val
		115					120					125			
Glu	Glu	Gly	Ile	Trp	Arg	Glu	Arg	Arg	Arg	Lys	Phe	Ala	Arg	Ile	Tyr
		130				135					140				
Gln	Arg	Arg	Met	Arg	Arg	Pro	Ser	Tyr	Gly	Glu	Leu	Ile	Gln	Ile	Asp
145					150					155					160
Gly	Ser	Pro	His	Asp	Trp	Phe	Glu	Gly	Arg	Gly	Pro	Lys	Cys	Thr	Leu
				165					170					175	

Ile Val Phe Phe Asp Asp Ala Thr Ser Ala Leu Met Ala Leu Arg Phe
 180 185 190
 Ala Pro Ala Glu Thr Thr Arg Ala Tyr Met Glu Thr Leu Arg Gly Tyr
 195 200 205
 Leu Asn Asp His Gly Val Pro Leu Ala Leu Tyr Ser Asp Arg His Ser
 210 215 220
 Ile Phe Arg Val Asn Asn Pro Glu Arg Glu Arg Arg Val Asp Ser Val
 225 230 235 240
 His Thr Cys Asp Lys Asp Thr Gly His Arg Ala Asn Pro Cys Gln Gln
 245 250 255
 Pro Ala Gly Lys Arg Ala Gly Arg Ala Cys Gln Ser Asp Thr Ala Gly
 260 265 270
 Gln Ala Gly Gln Arg Asn Ala Ala Ser Gly Tyr Gln
 275 280 285

<210> 7361

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7361

Arg Gly Phe Met Leu Ile Ile Gly Ala Cys Thr Arg Phe Ile Thr Ser
 1 5 10 15
 Val Ala Trp Ala Leu Asn Arg Arg Arg Arg Lys Gly Leu Ala Thr
 20 25 30
 Glu Arg Leu Pro Cys Phe Leu Pro Ala Ala Pro Asn Leu Thr Trp Ser
 35 40 45
 Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys
 50 55 60
 Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val
 65 70 75 80
 Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile Leu Asp Ser Ile
 85 90 95
 Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr Asp Gln Gly Pro
 100 105 110
 Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe Glu His Gly Val
 115 120 125
 Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln Asn Gly Phe Ile
 130 135 140
 Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu Asn Glu His Trp
 145 150 155 160
 Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn Asp Trp Arg Gln
 165 170 175
 Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn Tyr Gln Thr Pro
 180 185 190
 Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser Glu Asn Glu Asp
 195 200 205
 Ser Asp Val Thr Asn
 210

<210> 7362

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 7362

Val Leu Tyr Leu Ile Val Gly Ala Gly His Gly Asp Ser Leu Asn Asn
 1 5 10 15
 Ala Asn Met Trp Gly Gly Glu Ile Leu Asn Arg Val Gln Gln Cys Thr
 20 25 30
 Ser Tyr Thr Leu Ala Leu Thr Gly Thr Pro Trp Arg Thr Asp Asn Asn

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<210> 7363
<211> 93
<212> PRT
<213> Enterobacter cloacae
```

Ser 1	Ala	Ala	Trp	Arg 5	Gly	Ala	Ile	Cys	Leu 10	Ser	Arg	Cys	Arg	Leu 15	Pro
Arg	Gly	Ala	Thr 20	Ala	Arg	Gly	Ala	Gly 25	Arg	Gly	Gly	Cys	Gly 30	Leu	Ala
Asp	Arg	Arg 35	Ala	Pro	Arg	Gln	Gly 40	Lys	Asn	Leu	Glu	Thr 45	Ala	Ser	Thr
Gln	Glu	Gln	Asn	Gly	His	Gln	His 55	Arg	Ile	His	Glu	Ser 60	Gln	His	Pro
Gly 65	Gln	Gly	Gly	Ala	Pro 70	Ile	Ser	His	His	Gln	Ala	Thr 75	Val	Arg	Leu 80
Arg	Glu	Ser	Gln	Ile 85	Gln	Gly	Val	Ala	Glu 90	Lys	Arg				

<210> 7364
<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 7364

```

Ile Thr Arg Ser Gly Lys Gly Glu Leu Thr Gln Phe Thr Arg Ala Ile
1      5      10      15
Lys Thr Leu Gly Ile Glu Pro Ile His Ala Asn Ser Pro Gln Ala Lys
20     25     30
Gly Arg Val Glu Arg Ala Asn Gln Thr Leu Gln Asp Arg Leu Val Lys
35     40     45
Glu Met Arg Leu Gln Gly Ile Ser Asp Ile Glu Thr Ala Asn Ala Trp
50     55     60
Leu Pro Thr Phe Ile Glu Ala Tyr Asn Asn Arg Phe Ala Thr Pro Pro
65     70     75     80
Arg Ile Ala Asp Asn Ala His Leu Asp Val His His Ser Glu Glu Glu
85     90     95
Leu Gly Tyr Ile Phe Ser Leu Gln Ala Lys Arg Val Leu Ser Lys Asn
100    105    110
Leu Thr Phe Gln Tyr Lys Ser Ser Ala Phe Gln Ile Arg Ser Glu Gly
115    120    125
Arg Gly Tyr Arg Leu Arg His Ser Val Val Thr Val Cys Glu Ser Phe
130    135    140
Asn Gly Glu Ile Lys Val Leu Tyr Asp Gly Lys Ala Leu Gly Trp Glu
145    150    155    160
Lys Tyr Val Asp Gly Pro Glu Pro Ile Pro Leu Asp Asp Glu Lys Ser
165    170    175
Val His Glu Arg Val Asp Asn Ala Arg Phe Asp Leu Arg Ser Lys Phe
180    185    190
Tyr Val Lys Pro Lys Ala Asp His Pro Trp Leu Thr Arg Arg Thr Gln
195    200    205
Ser Asn Gln Gln Val Lys Pro Pro Lys Leu Pro Arg Lys Lys Ala Asp
210    215    220
Pro Asp Lys Met Asp
225      230

```

<210> 7365

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 7365

```

Ser Ser Tyr Phe Arg Lys Leu Ile Met Thr Lys Thr Lys Gly Leu Pro
1      5      10      15
Arg Pro Leu Thr His Tyr Ala Trp Leu Ser Ile Ala Thr Ala Ile Ala
20     25     30
Thr Ile Gly Leu Lys Gly Val Ala Trp Lys Met Thr Gly Ser Val Gly
35     40     45
Leu Leu Ser Asp Ala Ile Glu Ser Val Val Asn Leu Ala Gly Ala Leu
50     55     60
Met Ala Leu Trp Met Leu Thr Leu Ala Ala Leu Pro Ala Asp Glu Asn
65     70     75     80
His Ala Tyr Gly His Gly Lys Ala Glu Tyr Phe Ser Ser Ala Phe Glu
85     90     95
Gly Phe Leu Ile Leu Leu Ala Ala Ala Ser Ile Ala Tyr Thr Ala Val
100    105    110
Glu Arg Met Leu Thr Pro Gln Pro Leu Glu Glu Ile Gly Leu Gly Leu
115    120    125
Leu Val Ser Thr Val Ala Ser Ile Leu Asn Phe Val Thr Ala Arg Ile
130    135    140
Leu Leu Arg Ala Gly Arg Gln His Asn Ser Ile Thr Leu Glu Ala Asp
145    150    155    160

```

Ala His His Leu Leu Thr Asp Val Trp Thr Ser Val Gly Val Ile Phe
165 170 175
Gly Val Gly Leu Val Tyr Leu Thr Gly Trp Phe Trp Val Asp Pro Ile
180 185 190
Val Ala Leu Leu Val Ala Ala Asn Ile Val Trp Thr Gly Tyr Gln Leu
195 200 205
Met Ser Arg Ser Ala Ala Gly Leu Met Asp Val Ser Leu Pro Thr Glu
210 215 220
Glu Leu Lys Lys Ile Glu Ser Leu Leu Ala Gly Tyr Arg Glu Gln Gly
225 230 235 240
Leu Asp Phe His Ala Leu Arg Thr Arg Gln Ala Gly Gly Arg Ala Phe
245 250 255
Met Thr Met His Ile Leu Val Pro Gly Arg Trp Thr Val Gln Tyr Gly
260 265 270
His Asp Trp Ala Glu Arg Ile Glu Asn Asp Ile Arg Thr Ala Leu Pro
275 280 285
Phe Ile His Ile Thr Thr His Val Glu Pro Leu Glu Asp Pro Ala Ser
290 295 300
Met Asn Asp Gln Thr Leu Asp Ile Ser Asp His
305 310 315

<210> 7366

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 7366

Thr Leu Met Ala Tyr Phe Leu Asp Phe Asp Glu Arg Ala Leu Lys Glu
1 5 10 15
Trp Arg Lys Leu Gly Ser Thr Val Arg Glu Gln Leu Lys Lys Leu
20 25 30
Val Glu Val Leu Glu Ser Pro Arg Ile Glu Ala Asn Lys Leu Arg Gly
35 40 45
Met Pro Asp Cys Tyr Lys Ile Lys Leu Arg Ser Ser Gly Tyr Arg Leu
50 55 60
Val Tyr Gln Val Ile Asp Glu Lys Val Val Val Phe Val Ile Ser Val
65 70 75 80
Gly Lys Arg Glu Arg Ser Glu Val Tyr Ser Glu Ala Val Lys Arg Ile
85 90 95
Leu

<210> 7367

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7367

Tyr Glu Ile Met Phe Val Ile Trp Ser His Gly Thr Gly Phe Ile Met
1 5 10 15
Ser His Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser Lys Arg Arg
20 25 30
Gln Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro
35 40 45
Trp Gln Asn Met Val Glu Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly
50 55 60
Asn Gly Arg Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys
65 70 75 80
Met Gln His Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu
85 90 95
Tyr Glu Ile Ala Ser Met Arg Arg Phe Ala Arg Leu Ser Leu Asp Ser

```
<210> 7368
<211> 458
<212> PRT
<213> Enterobacter cloacae
```

Ser 1	Pro	Leu	Phe	Phe 5	Arg	Ala	Ser	Arg	Cys 10	Ser	Thr	Phe	Ala	Asn 15	Glu
Tyr	Ser	Gly	His 20	Ala	Asp	Lys	Leu	Leu 25	Ala	Ile	Phe	Leu	Ser 30	Lys	Ser
Val	Glu	Cys 35	Ile	Pro	Ile	Pro	Asp 40	Lys	Lys	Glu	Leu	Val 45	Met	Thr	Val
Thr	Asn 50	Gln	Phe	Ala	Ala	His 55	Val	Gly	Leu	Asp 60	Trp	Ala	Asp	Lys	Lys
His 65	Asp	Val	Cys	Val	Gln 70	Phe	Lys	Asn	Gly	Glu 75	Arg	Val	Phe	Asp	Val
Ile	Glu	His	Thr 85	Ala	Glu	Ala	Leu	Asp 90	Ala	Trp	Leu	Thr	Glu	Leu 95	His
Gln	Lys	Val	Lys 100	Gly	Arg	Ile	Ala	Ile 105	Ala	Leu	Glu	Leu	Lys 110	Lys	Gly
Pro	Val	Val 115	Tyr	Ala	Leu	Gln	Lys 120	Tyr	Pro	Phe	Ile	Thr 125	Val	Phe	Pro
Val	His 130	Ala	Leu	Ser	Leu	Ala 135	Arg	Tyr	Arg	Gln	Ala 140	Phe	Ser	Pro	Ser
Gly 145	Ala	Lys	Asp	Asp 150	Pro	Gln	Asp	Ala	Glu	Leu 155	Ala	Leu	Glu	Leu 160	Met
Leu	Arg	Tyr	Pro 165	Gln	Lys	Ile	Lys	Ala	Ile 170	Glu	Pro	Asp	Asn 175	Ala	Asp
Ile	Arg	Leu	Leu	Gln	Gln	Leu	Val	Glu	Gln	Arg	Arg	Gln	Leu	Val	Glu


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<210> 7369
<211> 81
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7370
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

<400> 7370

His	Phe	Cys	Phe	Ala	Leu	Thr	Gly	Glu	Glu	Gly	His	Glu	Asn	Ala	Glu
1				5					10					15	
Pro	Thr	His	Cys	Phe	Val	His	Ile	Asn	Ser	Leu	Phe	Asn	Ala	Val	Asp
			20					25					30		
Ile	His	Leu	Ala	His	Thr	Lys	Leu	Ala	Leu	Arg	Val	Ala	Asp	Glu	Arg
		35					40					45			
Arg	Asn	Lys	Gly	Gly	Ile	Cys	Tyr	Pro	Gly	Leu	Arg	Ile	Arg		
	50					55					60				

<210> 7371

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7371

Leu	Cys	Tyr	Gly	His	Gln	Lys	Leu	Lys	Arg	Val	Glu	Val	Lys	Gln	Met
1				5					10					15	
Lys	Ile	Thr	Ile	Ser	Gly	Thr	Gly	Tyr	Val	Gly	Leu	Ser	Asn	Gly	Ile
			20					25					30		
Leu	Ile	Ala	Gln	Asn	His	Glu	Val	Val	Ala	Leu	Asp	Ile	Val	Gln	Ala
		35					40					45			
Lys	Val	Asp	Met	Leu	Asn	Gln	Lys	Lys	Ser	Pro	Ile	Val	Asp	Lys	Glu
	50					55					60				
Ile	Glu	Glu	Tyr	Leu	Ala	Thr	Lys	Pro	Leu	Asn	Phe	Arg	Ala	Thr	Thr
65					70					75					80
Asp	Lys	Glu	Asp	Ala	Tyr	Arg	Asp	Ala	Asp	Phe	Val	Ile	Ile	Ala	Thr
				85				90						95	
Pro	Thr	Asp	Tyr	Asp	Pro	Lys	Thr	Asn	Tyr	Phe	Asn	Thr	Ser	Thr	Val
		100						105					110		
Glu	Ala	Val	Ile	Lys	Asp	Val	Thr	Ala	Ile	Asn	Pro	Asn	Ala	Val	Met
		115					120					125			
Ile	Ile	Lys	Ser	Thr	Ile	Pro	Val	Gly	Phe	Thr	Lys	Ser	Ile	Lys	Glu
	130					135					140				
Glu	Leu	Gly	Ile	Asp	Asn	Val	Phe	Phe	Ser	Pro	Glu	Phe	Leu	Arg	Glu
145					150					155					160
Gly	Arg	Ala	Leu	Tyr	Asp	Asn	Leu	His	Pro	Ser	Arg	Ile	Val	Ile	Gly
				165					170					175	
Glu	Arg	Ser	Glu	Arg	Ala	Glu	Arg	Phe	Ala	Ala	Leu	Leu	Gln	Glu	Gly
		180						185					190		
Ala	Ile	Lys	Lys	Asp	Ile	Pro	Val	Leu	Phe	Thr	Asp	Ser	Thr	Glu	Ala
		195					200					205			
Glu	Ala	Ile	Lys	Leu	Phe	Ala	Asn	Thr	Tyr	Leu	Ala	Met	Arg	Val	Ala
	210					215					220				
Tyr	Phe	Asn	Glu	Leu	Asp	Ser	Tyr	Ala	Glu	Ser	Leu	Gly	Leu	Asn	Thr
225					230					235					240
Arg	Gln	Ile	Ile	Glu	Gly	Val	Cys	Leu	Asp	Pro	Arg	Ile	Gly	Asn	His
				245					250					255	
Tyr	Asn	Asn	Pro	Ser	Phe	Gly	Tyr	Gly	Gly	Tyr	Cys	Leu	Pro	Lys	Asp
		260						265					270		
Thr	Lys	Gln	Leu	Leu	Ala	Asn	Tyr	Gln	Ala	Val	Pro	Asn	Asn	Leu	Ile
		275					280					285			
Ser	Ala	Ile	Val	Asp	Ala	Asn	Arg	Thr	Arg	Lys	Asp	Phe	Ile	Ser	Asp
	290					295					300				
Ser	Ile	Leu	Ala	Arg	Gln	Pro	Lys	Val	Val	Gly	Val	Tyr	Arg	Leu	Ile
305					310					315					320
Met	Lys	Ser	Gly	Ser	Asp	Asn	Phe	Arg	Ala	Ser	Ser	Ile	Gln	Gly	Ile
				325					330					335	
Met	Lys	Arg	Ile	Lys	Ala	Lys	Gly	Val	Gln	Val	Ile	Ile	Tyr	Glu	Pro
		340					345						350		
Ala	Met	Gln	Glu	Asp	Glu	Phe	Phe	His	Ser	Arg	Val	Ile	Arg	Asp	Leu
		355					360						365		

Asp Ala Phe Lys Lys Glu Ala Asp Val Ile Ile Ser Asn Arg Met Ala
 370 375 380
 Glu Glu Leu Ala Asp Val Lys Asp Lys Val Tyr Thr Arg Asp Leu Phe
 385 390 395 400
 Gly Ser Asp

<210> 7372
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 7372
 Arg Ala Gln Thr Ser Ser Tyr Ser Glu Thr Leu Glu Pro Ala Ser Val
 1 5 10 15
 Pro Ser Arg Glu Ile Ser Val His Arg Thr Cys Phe Ser Pro Thr Gly
 20 25 30
 Arg Tyr Ile Pro Thr Ser Ser Ser Ser Val Thr Pro Glu Phe Ser Cys
 35 40 45
 Gln Pro Leu Thr Ala Thr Cys Leu Leu Pro Cys Ser Ser Met Arg Thr
 50 55 60
 Ser Ser Ala Ser Thr Ser Ala Ser Ala Pro Lys Arg Arg Asn Gln Pro
 65 70 75 80
 Leu Thr Leu Ser Gly Ser Phe Thr Ala Val Glu Pro Thr Thr Thr Arg
 85 90 95
 Ala Thr Pro Ala Ser Ser Lys Ala Ala Thr Ser Ala Ser Val Arg Thr
 100 105 110
 Pro Pro Pro Thr Cys Thr Gly Thr Ser Thr Pro Ala Thr Ser Val Leu
 115 120 125
 Ser Ser Gly Ile Trp Arg Phe Ala Gly Ser Phe Ala Pro Val Arg Ser
 130 135 140
 Thr Arg Cys Asn Thr Ser Ala Pro Ser Ala Ala
 145 150 155

<210> 7373
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 7373
 Glu Trp Ile Leu Ser Arg Thr Pro Gly Gln Lys Ser Pro Ala His Arg
 1 5 10 15
 Pro Leu Tyr Arg Ser Pro Ala Arg Arg Thr Ala Ser Pro Arg Thr Gly
 20 25 30
 Ser His Arg Gln Leu Val Glu Glu Ser Arg Ala Pro Pro Ser Asp Asn
 35 40 45
 Arg Gln Tyr Val Pro Gly Trp Pro Ala Ser Gly Arg Ser Lys Thr Ala
 50 55 60
 Glu Gln Ser Arg Arg Glu Tyr Arg Gly Arg Arg Thr Pro Pro Val Ala
 65 70 75 80
 Ser Pro Ala Gly Ser Ala Arg Arg Ala Gly Phe Pro His Pro Pro Pro
 85 90 95
 Ala Ile Ser Ala Arg Cys Gly Arg Tyr Gln Tyr Phe Ser Pro Arg Arg
 100 105 110
 Pro Ser Pro Val
 115

<210> 7374
 <211> 381
 <212> PRT
 <213> Enterobacter cloacae

<400> 7374

Arg Tyr Arg Ala Phe Leu Ser Tyr Pro Ile His Leu Leu Phe Asn Gly
 1 5 10 15
 Ile Asp Cys Val Lys Ile Leu Val Thr Gly Gly Ala Gly Phe Ile Gly
 20 25 30
 Ser Ala Val Ile Arg His Ile Ile Ser Asn Thr Arg Asp Ser Val Val
 35 40 45
 Asn Val Asp Lys Leu Thr Tyr Ala Gly Asn Leu Glu Ser Leu Arg Glu
 50 55 60
 Val Ser Asp Ser Glu Arg Tyr Val Phe Glu His Ala Asp Ile Cys Asp
 65 70 75 80
 Lys Glu Ala Met Ala Arg Ile Phe Ala Thr His Gln Pro Asp Ala Val
 85 90 95
 Met His Leu Ala Ala Glu Ser His Val Asp Arg Ser Ile Thr Gly Pro
 100 105 110
 Ala Ala Phe Ile Glu Thr Asn Ile Phe Gly Thr Tyr Ile Leu Leu Glu
 115 120 125
 Thr Ser Arg Ala Tyr Trp Ser Ser Leu Asp Glu Ala Ala Lys Ser Ala
 130 135 140
 Phe Arg Phe His His Ile Ser Thr Asp Glu Val Tyr Gly Asp Leu Pro
 145 150 155 160
 His Pro Asp Glu His Ser Asp Ser Thr Pro Leu Pro Leu Phe Thr Glu
 165 170 175
 Lys Thr Ala Tyr Gln Pro Ser Ser Pro Tyr Ser Ala Ser Lys Ala Ser
 180 185 190
 Ser Asp His Leu Val Arg Ala Trp Ile Arg Thr Tyr Gly Leu Pro Gly
 195 200 205
 Ile Val Thr Asn Cys Ser Asn Asn Tyr Gly Pro Tyr His Phe Pro Glu
 210 215 220
 Lys Leu Ile Pro Leu Val Ile Leu Asn Ala Leu Asp Asn Lys Pro Leu
 225 230 235 240
 Pro Ile Tyr Gly Lys Gly Asp Gln Ile Arg Asp Trp Leu Tyr Val Glu
 245 250 255
 Asp His Ala Arg Ala Leu Tyr Thr Val Leu Thr Thr Gly Lys Pro Gly
 260 265 270
 Glu Thr Tyr Asn Ile Gly Gly His Asn Glu Lys Lys Asn Ile Glu Val
 275 280 285
 Val Gln Thr Ile Cys Asp Leu Leu Asp Asp Met Val Pro Lys Glu Thr
 290 295 300
 Ser Tyr Arg Ala Gln Ile Thr Tyr Val Ala Asp Arg Pro Gly His Asp
 305 310 315 320
 Arg Arg Tyr Ala Ile Asp Ala His Lys Ile Ser Asp Glu Leu Gly Trp
 325 330 335
 Thr Pro Val Glu Thr Phe Glu Ser Gly Ile Arg Lys Thr Val Lys Trp
 340 345 350
 Tyr Leu Asn Asn Gln Glu Trp Val Ser Asn Val Lys Ser Gly Ala Tyr
 355 360 365
 Lys Ser Trp Ile Glu Gln Asn Tyr Gly Glu Arg Lys
 370 375 380

<210> 7375

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7375

Met Thr Lys Arg Lys Gly Ile Ile Leu Ala Gly Gly Ser Gly Thr Arg
 1 5 10 15
 Leu Tyr Pro Val Thr Met Ala Val Ser Lys Gln Leu Leu Pro Ile Tyr
 20 25 30

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<210> 7376
<211> 292
<212> PRT
<213> Enterobacter cloacae
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Ala	Glu	Asn	Val	Met	Lys	Lys	Val	Ala	Ile	Val	Gly	Leu	Gly	Trp	Leu
1				5					10					15	
Gly	Met	Pro	Leu	Ala	Met	Ser	Leu	Ala	Ala	Lys	Gly	Trp	Gln	Val	Thr
			20					25					30		
Gly	Ser	Lys	Thr	Thr	Arg	Asp	Gly	Val	Glu	Ala	Ala	Arg	Met	Cys	Gly
		35					40					45			
Ile	Asp	Gly	Val	Glu	Leu	Arg	Leu	Glu	Pro	Glu	Leu	Ile	Cys	Asp	Thr
	50					55					60				
Asp	Glu	Leu	Asp	Glu	Leu	Met	Asn	Val	Asp	Ala	Leu	Val	Ile	Thr	Leu
65					70					75					80
Pro	Ala	Arg	Arg	Ser	Gly	Pro	Ser	Glu	Thr	Phe	Tyr	Leu	Gln	Ala	Val
				85					90					95	
Gln	Glu	Ile	Val	Asp	Ser	Ala	Leu	Ala	His	His	Ile	Pro	Arg	Ile	Ile
			100					105					110		
Phe	Thr	Ser	Ser	Thr	Ser	Val	Tyr	Gly	Ala	Ile	Asp	Gly	Thr	Ala	Lys
		115					120					125			
Glu	Asn	Thr	Glu	Arg	Arg	Pro	Val	Thr	Ala	Ser	Gly	Arg	Val	Leu	Lys
	130					135					140				
Glu	Leu	Glu	Asp	Trp	Leu	His	Asn	Leu	Pro	Gly	Thr	Gln	Val	Asp	Ile
145					150					155					160

Leu Arg Leu Ala Gly Leu Val Gly Pro Gly Arg His Pro Gly Arg Phe
 165 170 175
 Phe Ala Gly Lys Ser Ala Pro Asp Gly Gln His Gly Val Asn Leu Val
 180 185 190
 His Leu Glu Asp Val Ile Gly Ala Ile Glu Leu Leu Leu Gln Ala Pro
 195 200 205
 Lys Gly Gly His Ile Tyr Asn Ile Cys Ala Pro Ser His Pro Pro Arg
 210 215 220
 Ser Thr Phe Tyr Pro Leu Met Ala Arg Gln Leu Gly Leu Ala Pro Pro
 225 230 235 240
 Val Phe Ser Asp Ala Gln Gly Glu Arg Lys Gly Lys Ile Ile Asp Gly
 245 250 255
 Asn Arg Ile Cys His Glu Leu Gly Phe Glu Tyr Gln Tyr Pro Asp Pro
 260 265 270
 Leu Val Met Pro Thr Glu Tyr Phe Ser Leu Thr Lys Arg Pro Gly Pro
 275 280 285
 Ala Leu Asn Ala
 290

<210> 7377

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 7377

Cys Leu Ala Arg Leu Leu Pro Thr Pro Leu Gly Glu Asp Gly Met Ser
 1 5 10 15
 Arg Gln Gln Ile Gly Val Ile Gly Met Ala Val Met Gly Arg Asn Leu
 20 25 30
 Ala Leu Asn Ile Glu Ser Arg Gly Tyr Thr Val Ser Ile Phe Asn Arg
 35 40 45
 Ser Arg Asp Lys Thr Glu Glu Val Ile Ala Glu Asn Pro Gly Lys Lys
 50 55 60
 Leu Val Pro Phe Tyr Thr Val Lys Glu Phe Val Glu Ser Leu Glu Thr
 65 70 75 80
 Pro Arg Arg Ile Leu Leu Met Val Lys Ala Gly Ala Gly Thr Asp Ala
 85 90 95
 Ala Ile Asp Ser Leu Lys Pro Tyr Leu Asp Lys Gly Asp Ile Ile Ile
 100 105 110
 Asp Gly Gly Asn Thr Phe Phe His Asp Thr Ile Arg Arg Asn Arg Glu
 115 120 125
 Leu Ser Ala Glu Gly Phe Asn Phe Ile Gly Thr Gly Val Ser Gly Gly
 130 135 140
 Glu Glu Gly Ala Leu Lys Gly Pro Ser Ile Met Pro Gly Gly Gln Lys
 145 150 155 160
 Glu Ala Tyr Glu Leu Val Ala Pro Ile Leu Thr Lys Ile Ala Ala Val
 165 170 175
 Ala Glu Asp Gly Glu Pro Cys Val Thr Tyr Ile Gly Pro Asp Gly Ala
 180 185 190
 Gly His Tyr Val Lys Met Val His Asn Gly Ile Glu Tyr Gly Asp Met
 195 200 205
 Gln Leu Ile Ala Glu Ala Tyr Ser Leu Leu Lys Gly Gly Leu Asn Leu
 210 215 220
 Ser Asn Glu Glu Leu Ala Glu Thr Phe Thr Glu Trp Asn Lys Gly Glu
 225 230 235 240
 Leu Asn Ser Tyr Leu Ile Asp Ile Thr Lys Asp Ile Phe Thr Lys Lys
 245 250 255
 Asp Glu Glu Gly Lys Tyr Leu Val Asp Val Ile Leu Asp Glu Ala Ala
 260 265 270
 Asn Lys Gly Thr Gly Lys Trp Thr Ser Gln Ser Ser Leu Asp Leu Gly
 275 280 285

Glu Pro Leu Ser Leu Ile Thr Glu Ser Val Phe Ala Arg Tyr Ile Ser
 290 295 300
 Ser Leu Lys Glu Gln Arg Val Ala Ala Ser Lys Val Leu Ser Gly Pro
 305 310 315 320
 Gln Ala Lys Pro Ala Gly Asp Lys Ala Glu Phe Val Glu Lys Val Arg
 325 330 335
 Arg Ala Leu Tyr Leu Gly Lys Ile Val Ser Tyr Ala Gln Gly Phe Ser
 340 345 350
 Gln Leu Arg Ala Ala Ser Asp Glu Asn Asn Trp Asp Leu Asn Tyr Gly
 355 360 365
 Glu Ile Ala Lys Ile Phe Arg Ala Gly Cys Ile Ile Arg Ala Gln Phe
 370 375 380
 Leu Gln Lys Ile Thr Asp Ala Tyr Ala Glu Asn Ala Gly Ile Ala Asn
 385 390 395 400
 Leu Leu Leu Ala Pro Tyr Phe Lys Gln Ile Ala Asp Asp Tyr Gln Gln
 405 410 415
 Ala Leu Arg Asp Val Val Ala Tyr Ala Val Gln Asn Gly Ile Pro Val
 420 425 430
 Pro Thr Phe Ser Ala Ala Val Ala Tyr Tyr Asp Ser Tyr Arg Ala Ala
 435 440 445
 Val Leu Pro Ala Asn Leu Ile Gln Ala Gln Arg Asp Tyr Phe Gly Ala
 450 455 460
 His Thr Tyr Lys Arg Thr Asp Lys Glu Gly Val Phe His Thr Glu Trp
 465 470 475 480
 Leu Asp

<210> 7378

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7378

Cys Pro Arg Thr Ser Glu Ser Ala Tyr Asp Ser Ala Ser Tyr Phe Thr
 1 5 10 15
 Tyr Ile Thr His Leu Ser Asp Ile Thr His Arg Ile Leu Ile Glu Lys
 20 25 30
 Ser Pro Ala Thr Asp Thr Leu Arg Lys Gln Asp Tyr Phe Cys Pro Phe
 35 40 45
 Ser Ser Val Arg Asp Cys Met Thr Gln Asn Asn Asn Ser Leu Val Thr
 50 55 60
 Arg Asn Asn Asp Pro Glu Gln Ile Asp Leu Leu Asp Leu Val Leu Gln
 65 70 75 80
 Leu Trp Arg Gly Lys Trp Val Ile Gly Ala Phe Val Ala Ala Phe Ile
 85 90 95
 Val Leu Ala Val Val Tyr Ile Thr Val Ala Lys Glu Lys Trp Thr Ser
 100 105 110
 Ser Ala Ile Ile Ala Gln Pro Asp Ala Ala Gln Ile Ala Thr Tyr Ser
 115 120 125
 Asn Ala Leu Asn Ile Leu Tyr Gly Gly Ala Ala Pro Ser Met Leu Asp
 130 135 140
 Ile Gln Asn Arg Ala Ile Gly Arg Phe Asn Ser Ser Phe Ser Ala Leu
 145 150 155 160
 Ala Gln Ala Leu Glu Asn Gln Glu Asp Pro Glu Lys Leu Thr Ile Glu
 165 170 175
 Pro Thr Val Lys Gly Gln Ser Leu Pro Leu Thr Val Ser Tyr Gln Gly
 180 185 190
 Glu Ser Ala Asp Ala Ala Gln Lys Gln Leu Ala Gln Tyr Ile Gln Gln
 195 200 205
 Val Asp Glu Gln Thr Ala Lys Glu Leu Thr Leu Asp Leu Arg Asp Asn
 210 215 220

Leu Lys Gln Gln Ile Thr Thr Leu Asn Asp Ser Leu Gln Asn Gln Glu
 225 230 235 240
 Lys Val Ala Gln Glu Gln Lys Asp Leu Arg Ile Lys Gln Ile Ser Glu
 245 250 255
 Ala Tyr Lys Asn Ala Glu Ala Ala Asn Ile Ser Thr Pro Gln Leu Gln
 260 265 270
 Gln Thr Gln Asp Val Thr Gln Glu Thr Met Phe Leu Leu Gly Thr Val
 275 280 285
 Ala Leu Lys Ser Met Ile Asp Asn Glu Ala Ser Arg Pro Leu Val Phe
 290 295 300
 Ser Gly Ala Tyr Tyr Gln Thr Lys Gln Asn Leu Leu Asp Ile Gln Asn
 305 310 315 320
 Leu Asn Val Asn Pro Asp Thr Ile His Val Tyr Arg Tyr Val Met Lys
 325 330 335
 Pro Asn Leu Pro Ile Arg Arg Asp Ser Pro Lys Lys Ala Ile Thr Leu
 340 345 350
 Ile Leu Ala Val Leu Leu Gly Gly Ile Ile Gly Ser Ala Val Val Leu
 355 360 365
 Gly Arg Asn Ala Leu Arg Asn Tyr Lys Pro Arg Ala
 370 375 380

<210> 7379

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 7379

Lys Ser Pro Arg Lys Ile Phe Phe Arg Gly Leu Phe Phe Gly Pro His
 1 5 10 15
 Ser Asp Arg Leu Lys Gln Val Asn Glu His Arg Met Leu Asp Asn
 20 25 30
 Ser Arg Leu Arg Ile Ala Ile Gln Lys Ser Gly Arg Leu Ser Asp Asp
 35 40 45
 Ser Arg Glu Leu Leu Ala Arg Cys Gly Ile Lys Ile Asn Leu His Thr
 50 55 60
 Gln Arg Leu Ile Ala Leu Ala Glu Asn Met Pro Ile Asp Ile Leu Arg
 65 70 75 80
 Val Arg Asp Asp Asp Ile Pro Gly Leu Val Met Asp Gly Val Val Asp
 85 90 95
 Leu Gly Ile Ile Gly Glu Asn Val Leu Glu Glu Glu Leu Leu Thr Arg
 100 105 110
 Arg Ala Gln Gly Glu Asp Pro Arg Tyr Phe Thr Leu Arg Arg Leu Asp
 115 120 125
 Phe Gly Gly Cys Arg Leu Ser Leu Ala Thr Pro Val Asp Glu Ala Trp
 130 135 140
 Asp Gly Pro Ala Ala Leu Asn Gly Lys Arg Ile Ala Thr Ser Tyr Pro
 145 150 155 160
 His Leu Leu Lys Arg Tyr Leu Asp Gln Lys Gly Val Gln Phe Lys Ser
 165 170 175
 Cys Leu Leu Asn Gly Ser Val Glu Val Ala Pro Arg Ala Gly Leu Ala
 180 185 190
 Asp Ala Ile Cys Asp Leu Val Ser Thr Gly Ala Thr Leu Glu Ala Asn
 195 200 205
 Gly Leu Arg Glu Val Glu Val Ile Tyr Arg Ser Lys Ala Cys Leu Ile
 210 215 220
 Gln Arg Asp Gly Glu Met Ala Asp Ala Lys Gln His Leu Ile Asp Lys
 225 230 235 240
 Leu Leu Thr Arg Ile Gln Gly Val Ile Gln Ala Arg Glu Ser Lys Tyr
 245 250 255
 Ile Met Met His Ala Pro Thr Glu Arg Leu Glu Glu Val Ile Ala Leu
 260 265 270

Leu Pro Gly Ala Glu Arg Pro Thr Ile Leu Pro Leu Ala Gly Asp Gln
 275 280 285
 Gln Arg Val Ala Met His Met Val Ser Ser Glu Thr Leu Phe Trp Glu
 290 295 300
 Thr Met Glu Lys Leu Lys Ala Leu Gly Ala Ser Ser Ile Leu Val Leu
 305 310 315 320
 Pro Ile Glu Lys Met Met Glu
 325

<210> 7380

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7380

Arg Pro Glu Ser Gly Glu Ser Met Ser Gln Lys Tyr Leu Phe Ile Asp
 1 5 10 15
 Arg Asp Gly Thr Ile Ile Ser Glu Pro Pro Ser Asp Phe Gln Val Asp
 20 25 30
 Arg Phe Asp Lys Leu Ala Phe Glu Pro Asp Val Ile Pro Val Leu Leu
 35 40 45
 Lys Leu Gln Lys Ala Gly Tyr Lys Leu Val Met Ile Thr Asn Gln Asp
 50 55 60
 Gly Leu Gly Thr Asp Ser Phe Pro Gln Ala Asp Phe Asp Gly Pro His
 65 70 75 80
 Asn Leu Met Met Gln Val Leu Thr Ser Gln Gly Ile Ala Phe Asp Glu
 85 90 95
 Val Leu Ile Cys Pro His Met Pro Ala Asp Lys Cys Asp Cys Arg Lys
 100 105 110
 Pro Lys Leu Lys Leu Val Glu Arg Tyr Leu Ala Glu Glu Ala Leu Asp
 115 120 125
 Lys Ala Asn Ser Tyr Val Ile Gly Asp Arg Val Thr Asp Ile Thr Leu
 130 135 140
 Ala Glu Asn Met Gly Ile Ala Gly Leu Arg Tyr Asn Arg Asp Thr Leu
 145 150 155 160
 Asn Trp Ala Met Ile Gly Glu Gln Leu Thr Arg Arg Asp Arg Tyr Ser
 165 170 175
 His Val Glu Arg Asn Thr Lys Glu Thr Gln Ile Asp Val Lys Val Trp
 180 185 190
 Leu Asp Arg Glu Gly Gly Ser Lys Ile His Thr Gly Val Gly Phe Phe
 195 200 205
 Asp His Met Leu Asp Gln Ile Ala Thr His Gly Gly Phe Arg Met Glu
 210 215 220
 Ile Thr Val Lys Gly Asp Leu Tyr Ile Asp Asp His His Thr Val Glu
 225 230 235 240
 Asp Thr Gly Leu Ala Leu Gly Glu Ala Leu Lys Leu Ala Leu Gly Asp
 245 250 255
 Lys Arg Gly Ile Asn Arg Phe Gly Phe Val Leu Pro Met Asp Glu Cys
 260 265 270
 Leu Ala Arg Cys Ala Met Asp Ile Ser Gly Arg Pro His Leu Glu Tyr
 275 280 285
 Lys Ala Asp Phe Thr Tyr Gln Arg Val Gly Asp Leu Ser Thr Glu Met
 290 295 300
 Val Glu His Phe Phe Arg Ser Leu Ser Tyr Thr Met Gly Leu Thr Leu
 305 310 315 320
 His Leu Lys Thr Lys Gly Lys Asn Asp His His Arg Val Glu Ser Leu
 325 330 335
 Phe Lys Ala Phe Gly Arg Thr Leu Arg Gln Ala Ile Arg Val Glu Gly
 340 345 350
 Asp Ala Leu Pro Ser Ser Lys Gly Val Leu
 355 360

<210> 7381
 <211> 311
 <212> PRT
 <213> Enterobacter cloacae

<400> 7381

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Arg Gly Leu Arg Ala Leu Ser Ala Gly Gly Val Ser Val Leu Trp Arg
1      5      10      15
Tyr Arg Arg Pro Gly Gly Tyr Arg Arg Ser Ala Arg Asn Arg Cys Thr
20      25      30
Trp Arg Asp Arg Gly Ser Arg Ala Ala Gly Arg Gln Ile Tyr Gly Lys
35      40      45
Gly Gly Asp Ser Met Leu Ala Lys Arg Ile Ile Pro Cys Leu Asp Val
50      55      60
Arg Asp Gly Gln Val Val Lys Gly Val Gln Phe Arg Asn His Glu Ile
65      70      75      80
Ile Gly Asp Ile Val Pro Leu Ala Lys Arg Tyr Ala Glu Glu Gly Ala
85      90      95
Asp Glu Leu Val Phe Tyr Asp Ile Thr Ala Ser Ser Asp Gly Arg Val
100     105     110
Val Asp Lys Ser Trp Val Ala Arg Val Ala Glu Val Ile Asp Ile Pro
115     120     125
Phe Cys Val Ala Gly Gly Ile Lys Ser Ala Asp Asp Ala Ala Lys Ile
130     135     140
Leu Ser Phe Gly Ala Asp Lys Ile Ser Ile Asn Ser Pro Ala Leu Ala
145     150     155     160
Asp Pro Ala Leu Ile Thr Arg Leu Ala Asp Arg Phe Gly Val Gln Cys
165     170     175
Ile Val Val Gly Ile Asp Thr Trp Phe Asp Thr Ala Thr Gly Lys Tyr
180     185     190
His Val Asn Gln Tyr Thr Gly Asp Glu Ser Arg Thr Arg Val Thr Gln
195     200     205
Trp Glu Thr Leu Asp Trp Val Gln Glu Val Gln Lys Arg Gly Ala Gly
210     215     220
Glu Ile Val Leu Asn Met Met Asn Gln Asp Gly Val Arg Asn Gly Tyr
225     230     235     240
Asp Leu Glu Gln Leu Lys Lys Val Arg Ala Val Cys Gln Val Pro Leu
245     250     255
Ile Ala Ser Gly Gly Ala Gly Thr Met Glu His Phe Leu Gln Ala Phe
260     265     270
Arg Asp Ala Asn Val Asp Gly Ala Leu Ala Ala Ser Val Phe His Lys
275     280     285
Gln Ile Ile Asn Ile Gly Glu Leu Lys Thr Tyr Leu Ala Asp Gln Gly
290     295     300
Val Glu Ile Arg Val Cys
305     310

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<210> 7382
 <211> 380
 <212> PRT
 <213> Enterobacter cloacae

<400> 7382

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Asn Pro Gly Arg Arg Arg Thr Ser Asp Cys Pro Gln Lys Cys Arg Asp
1      5      10      15
Ala Ala Arg Cys Arg Pro Glu Gly Ala Ser Met Asn Ile Glu Glu Leu
20      25      30
Ala Arg Glu Asn Val Arg Arg Leu Thr Pro Tyr Gln Ser Ala Arg Arg
35      40      45
Leu Gly Gly Asn Gly Asp Val Trp Leu Asn Ala Asn Glu Tyr Pro Thr

```

50	55	60
Pro Val Ala Phe Glu	Leu Ser Gln Gln Thr	Leu Asn Arg Tyr Pro Glu
65	70	75
Cys Gln Pro Lys Ala	Val Ile Glu Asn Tyr	Ala Gln Tyr Ala Gly Val
85	90	95
Lys Pro Glu Gln Val	Leu Val Ser Arg Gly	Ala Asp Glu Gly Ile Glu
100	105	110
Leu Leu Ile Arg Ala	Phe Cys Glu Pro Gly	Lys Asp Ala Val Met Tyr
115	120	125
Cys Gln Pro Thr Tyr	Gly Met Tyr Ser Val	Ser Ala Glu Thr Phe Gly
130	135	140
Val Ala Cys Arg Asn	Val Gln Ala Leu Asp	Asn Trp Gln Leu Asp Leu
145	150	155
Gln Gly Ile Ala Asp	Asn Leu Asp Gly Val	Lys Val Val Phe Val Cys
165	170	175
Ser Pro Asn Asn Pro	Thr Gly Gln Ile Ile	Asn Pro Gln Asp Ile Arg
180	185	190
Ala Leu Leu Glu Met	Thr Arg Gly Lys Ala	Leu Val Val Ala Asp Glu
195	200	205
Ala Tyr Ile Glu Phe	Cys Pro Gln Ala Thr	Leu Ala Gly Trp Leu Glu
210	215	220
Glu Tyr Pro His Leu	Val Val Leu Arg Thr	Leu Ser Lys Ala Phe Ala
225	230	235
Leu Ala Gly Leu Arg	Cys Gly Phe Thr Leu	Ala Asn Lys Ala Ile Ile
245	250	255
Asp Leu Leu Leu Lys	Val Ile Ala Pro Tyr	Pro Leu Ser Thr Pro Val
260	265	270
Ala Asp Ile Ala Ala	Gln Ala Leu Ala Pro	Gln Gly Ile Ser Ala Met
275	280	285
Arg Glu Arg Val Ala	Gln Ile Leu Glu Glu	Arg Gln Tyr Leu Val Asp
290	295	300
Ala Leu Lys Thr Ile	Pro Cys Val Glu Lys	Val Phe Asp Ser Glu Thr
305	310	315
Asn Tyr Ile Leu Val	Arg Phe Thr Ala Ser	Ser Ala Ile Phe Lys Ser
325	330	335
Leu Trp Asp Gln Gly	Ile Ile Leu Arg Asp	Gln Asn Lys Gln Pro Thr
340	345	350
Leu Ser Gly Cys Leu	Arg Ile Thr Val Gly	Thr Arg Ala Glu Ser Gln
355	360	365
Arg Val Ile Asp Ala	Leu Lys Ala Glu Lys	Val
370	375	380

<210> 7383

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7383

Leu Leu Arg Arg	Ala Val Ser Pro	Gly Thr Leu Arg	Cys Arg Arg Cys
1	5	10	15
Ala Thr Ala Glu	Lys Phe Pro Gly	Asp Val Met Ile	Ile Pro Ala Leu
20	25	30	
Asp Leu Ile Asp	Gly Thr Val Val	Arg Leu His Gln	Gly Asp Tyr Gly
35	40	45	
Gln Gln Arg Asp	Tyr Gly Asn Asp	Pro Leu Pro Arg	Leu Gln Ala Tyr
50	55	60	
Ala Ala Glu Gly	Ala Glu Val Leu	His Leu Val Asp	Leu Thr Gly Ala
65	70	75	80
Lys Asp Pro Ala	Lys Arg Gln Ile	Pro Leu Leu Lys	Thr Leu Val Ala
85	90	95	
Gly Val Asp Val	Pro Val Gln Val	Gly Gly Gly Val	Arg Thr Glu Ala

		100						105					110				
Asp	Val	Ala	Ala	Leu	Leu	Asp	Ala	Gly	Val	Ala	Arg	Val	Val	Val	Gly		
		115					120					125					
Ser	Thr	Ala	Val	Lys	Asp	Pro	Glu	Ser	Val	Lys	Gly	Trp	Phe	Arg	Arg		
		130				135					140						
Phe	Gly	Ala	Asp	Ala	Leu	Val	Leu	Ala	Leu	Asp	Val	Arg	Ile	Asp	Glu		
145					150					155					160		
Gln	Gly	Asn	Lys	Gln	Val	Ala	Val	Ser	Gly	Trp	Gln	Glu	Asn	Ser	Gly		
				165					170					175			
Val	Thr	Leu	Glu	Glu	Leu	Val	Gly	Met	Tyr	Leu	Pro	Val	Gly	Leu	Lys		
		180						185					190				
His	Val	Leu	Cys	Thr	Asp	Ile	Ser	Arg	Asp	Gly	Thr	Leu	Ala	Gly	Ser		
		195					200					205					
Asn	Val	Ser	Leu	Tyr	Glu	Glu	Val	Cys	Ala	Arg	Tyr	Pro	Gln	Val	Ala		
		210				215				220							
Phe	Gln	Ser	Ser	Gly	Gly	Ile	Gly	Asp	Leu	Ala	Asp	Ile	Ala	Ala	Leu		
225				230					235						240		
Arg	Gly	Thr	Gly	Val	Arg	Gly	Val	Ile	Val	Gly	Arg	Ala	Leu	Leu	Glu		
				245				250						255			
Gly	Lys	Phe	Thr	Val	Lys	Glu	Ala	Ile	Gln	Cys	Trp	Gln	Asn	Gly			
			260					265					270				

<210> 7384

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7384

Arg	Ile	Thr	Ala	Gly	Gly	Cys	Thr	Ala	Cys	Arg	Phe	Arg	Arg	Ser	Ala		
1			5						10					15			
Asp	Ala	Gly	Ile	His	Glu	Pro	Gly	Gly	Thr	Asp	Lys	Asn	Ala	Arg	Gln		
			20					25					30				
Arg	Gln	Gly	Asn	Val	Phe	Leu	Ala	His	Gln	Thr	Ala	Pro	Val	Asp	Glu		
		35					40					45					
Arg	Gly	Asn	Leu	Gly	Ser	Leu	Pro	Glu	Cys	Gly	Gln	His	Tyr	Ala	Arg		
		50				55				60							
Leu	Arg	Gln	Arg	His	Pro	Ala	Gly	Ala	Gly	Gln	Pro	Asp	Trp	Ala	Tyr		
65				70					75						80		
Leu	Pro	Gln	Arg	His	Gln	Gln	Leu	Leu	Arg	Arg	Asp	Glu	Pro	Pro	Val		
				85				90						95			
Ala	Val	Pro	Leu	Ser	Ala	Gly	Thr	Ala	Ala	Gly	Arg	Ala					
			100					105					110				

<210> 7385

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7385

Met	Arg	Glu	Ala	Met	Lys	Phe	Leu	Val	Thr	Gly	Ala	Ala	Gly	Phe	Ile		
1			5						10					15			
Gly	Ser	His	Val	Ser	Lys	Arg	Leu	Leu	Asp	Ala	Gly	His	Glu	Val	Val		
			20					25					30				
Gly	Ile	Asp	Asn	Leu	Asn	Asp	Tyr	Tyr	Asp	Pro	Asn	Leu	Lys	Leu	Ala		
		35				40					45						
Arg	Leu	Glu	Leu	Leu	Lys	Ser	Glu	Ser	Phe	Thr	Phe	His	Lys	Leu	Asp		
		50				55				60							
Leu	Ala	Asp	Arg	Lys	Gly	Met	Ala	Val	Leu	Phe	Ala	Asn	Glu	Lys	Phe		
65				70					75						80		
Asp	Arg	Val	Ile	His	Leu	Ala	Ala	Gln	Ala	Gly	Val	Arg	Tyr	Ser	Leu		
				85				90						95			

Glu Asn Pro His Ala Tyr Ala Asp Ala Asn Leu Val Gly His Leu Asn
 100 105 110
 Val Leu Glu Gly Cys Arg His Asn Lys Val Gln His Leu Leu Tyr Ala
 115 120 125
 Ser Ser Ser Ser Val Tyr Gly Leu Asn Arg Lys Met Pro Phe Ser Thr
 130 135 140
 Asp Asp Ser Val Asp His Pro Val Ser Leu Tyr Ala Ala Thr Lys Lys
 145 150 155 160
 Ala Asn Glu Leu Met Ser His Thr Tyr Ser His Leu Tyr Asn Leu Pro
 165 170 175
 Thr Thr Gly Leu Arg Phe Phe Thr Val Tyr Gly Pro Trp Gly Arg Pro
 180 185 190
 Asp Met Ala Leu Phe Lys Phe Thr Lys Ala Met Ile Glu Gly Asn Ser
 195 200 205
 Ile Asp Val Tyr Asn Tyr Gly Lys Met Lys Arg Asp Phe Thr Tyr Ile
 210 215 220
 Asp Asp Ile Ala Glu Ala Ile Ile Arg Leu Gln Asp Val Ile Pro Gln
 225 230 235 240
 Ala Asp Ala Asp Trp Thr Val Glu Thr Gly Ser Pro Ala Thr Ser Ser
 245 250 255
 Ala Pro Tyr Arg Val Tyr Asn Ile Gly Asn Ser Ser Pro Val Glu Leu
 260 265 270
 Met Asp Tyr Ile Thr Ala Leu Glu Glu Ala Leu Gly Lys Glu Ala Val
 275 280 285
 Lys Asn Met Met Pro Ile Gln Pro Gly Asp Val Leu Glu Thr Ser Ala
 290 295 300
 Asp Thr Lys Ala Leu Tyr Asp Val Ile Gly Phe Lys Pro Gln Thr Ser
 305 310 315 320
 Val Lys Glu Gly Val Lys Asn Phe Val Asp Trp Tyr Arg Asn Phe Tyr
 325 330 335
 Asn Val

<210> 7386

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7386

Glu Asp Asp Gly Val Thr Thr Met Ser Phe Asn Thr Ile Ile Asp Trp
 1 5 10 15
 Asn Thr Cys Ser Asp Ala Gln Gln Arg Glu Leu Leu Met Arg Pro Ala
 20 25 30
 Ile Ser Ala Ser Glu Ser Ile Thr Arg Thr Val Ala Glu Ile Leu Asp
 35 40 45
 Asn Val Lys Ala Arg Gly Asp Asp Ala Leu Arg Glu Tyr Ser Ala Lys
 50 55 60
 Phe Asp Lys Thr Glu Val Gly Ala Leu Gln Val Thr Glu Gln Glu Ile
 65 70 75 80
 Ile Asp Ala Ser Asn Arg Leu Gly Asp Asp Ile Lys Gln Ala Met Ala
 85 90 95
 Val Ala Val Lys Asn Ile Asp Thr Phe His Thr Ala Gln Lys Leu Gln
 100 105 110
 Ala Val Asp Val Glu Thr Leu Pro Gly Val Arg Cys Gln Gln Val Thr
 115 120 125
 Arg Pro Val Ala Ser Val Gly Leu Tyr Ile Pro Gly Gly Ser Ala Pro
 130 135 140
 Leu Phe Ser Thr Val Leu Met Leu Ala Thr Pro Ala Arg Ile Ala Gly
 145 150 155 160
 Cys Gln Lys Val Val Leu Cys Ser Pro Pro Pro Ile Ala Asp Glu Ile
 165 170 175

Leu Tyr Ala Ala Lys Leu Cys Gly Val Gln Ala Ile Tyr Lys Val Gly
 180 185 190
 Gly Ala Gln Ala Ile Ser Ala Leu Ala Phe Gly Thr Val Ser Ile Pro
 195 200 205
 Lys Val Asp Lys Ile Phe Gly Pro Gly Asn Ala Tyr Val Thr Glu Ala
 210 215 220
 Lys Arg Gln Val Ser Gln Arg Leu Asp Gly Ala Ala Ile Asp Met Pro
 225 230 235 240
 Ala Gly Pro Ser Glu Val Leu Val Ile Ala Asp Ser Gly Ala Thr Pro
 245 250 255
 Asp Phe Val Ala Ser Asp Leu Leu Ser Gln Ala Glu His Gly Pro Asp
 260 265 270
 Ser Gln Val Ile Leu Leu Thr Pro Asp Ala Asp Met Ala Lys Arg Val
 275 280 285
 Gly Asp Ala Val Glu Arg Gln Leu Ala Asp Leu Pro Arg Ala Glu Thr
 290 295 300
 Ala Arg Gln Ala Leu Leu Ala Ser Arg Leu Ile Val Ala Arg Asp Leu
 305 310 315 320
 Asp Gln Cys Ile Ala Ile Ser Asn Gln Tyr Gly Pro Glu His Leu Ile
 325 330 335
 Ile Gln Thr Arg Asn Ala Arg Asp Leu Val Asp Ser Ile Thr Ser Ala
 340 345 350
 Gly Ser Val Phe Leu Gly Asp Trp Ser Pro Glu Ser Ala Gly Asp Tyr
 355 360 365
 Ala Ser Gly Thr Asn His Val Leu Pro Thr Tyr Gly Tyr Thr Ser Thr
 370 375 380
 Cys Ser Ser Leu Gly Leu Ala Asp Phe Gln Lys Arg Met Thr Val Gln
 385 390 395 400
 Glu Leu Ser Arg Glu Gly Phe Ala Ser Leu Ala Ser Thr Ile Glu Thr
 405 410 415
 Leu Ala Ala Ala Glu Arg Leu Thr Ala His Lys Asn Ala Val Thr Leu
 420 425 430
 Arg Val Ala Ala Leu Lys Glu Gln Ala
 435 440

<210> 7387

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 7387

Arg Pro Ala Leu Val Glu Arg Ser Ala Val Met Asn Val Val Ile Leu
 1 5 10 15
 Asp Thr Gly Cys Ala Asn Leu Asn Ser Val Gln Ser Ala Ile Met Arg
 20 25 30
 His Gly Tyr Glu Pro Val Val Ser Arg Asp Pro Asp Val Val Leu Arg
 35 40 45
 Ala Asp Lys Leu Phe Leu Pro Gly Val Gly Thr Ala Gln Ala Ala Met
 50 55 60
 Asp Gln Ile His Glu Arg Glu Leu Val Asp Leu Ile Lys Ala Cys Thr
 65 70 75 80
 Gln Pro Val Leu Gly Ile Cys Leu Gly Met Gln Leu Leu Gly Arg Arg
 85 90 95
 Ser Glu Glu Ser Asn Gly Val Asp Leu Leu Gly Ile Ile Glu Glu Asp
 100 105 110
 Val Pro Lys Met Thr Asp His Gly Leu Pro Leu Pro His Met Gly Trp
 115 120 125
 Asn Arg Val Tyr Pro Lys Ala Gly Asn Arg Leu Phe Gln Gly Ile Glu
 130 135 140
 Asp Gly Ala Tyr Phe Tyr Phe Val His Ser Tyr Ala Met Pro Val Asn
 145 150 155 160

Thr	Tyr	Thr	Ile	Ala	Gln	Cys	Asn	Tyr	Gly	Glu	Ala	Phe	Thr	Ala	Ala
				165					170					175	
Val	Gln	Lys	Asp	Asn	Phe	Tyr	Gly	Val	Gln	Phe	His	Pro	Glu	Arg	Ser
			180					185					190		
Gly	Ala	Ala	Gly	Ala	Gln	Leu	Leu	Lys	Asn	Phe	Leu	Glu	Met		
		195					200					205			

<210> 7388

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 7388

Val	Lys	Asn	Val	Pro	Gly	Arg	Pro	Gly	Arg	Gly	Asp	Gln	Gly	Met	Leu
1				5					10					15	
Thr	Glu	Gln	Gln	Gln	Ala	Gln	Leu	Asp	Trp	Glu	Lys	Thr	Asp	Gly	Leu
			20					25					30		
Leu	Pro	Val	Val	Val	Gln	His	Ala	Val	Ser	Gly	Glu	Val	Leu	Met	Leu
		35					40					45			
Gly	Tyr	Met	Asn	Gln	Glu	Ala	Leu	Thr	Lys	Thr	Leu	Asp	Ser	Gly	Lys
	50					55					60				
Val	Thr	Phe	Phe	Ser	Arg	Thr	Lys	Gln	Arg	Leu	Trp	Thr	Lys	Gly	Glu
65					70					75					80
Thr	Ser	Gly	His	Phe	Leu	Asn	Val	Val	Ser	Ile	Thr	Pro	Asp	Cys	Asp
				85					90					95	
Asn	Asp	Thr	Leu	Leu	Val	Leu	Val	Asn	Pro	Ile	Gly	Pro	Thr	Cys	His
			100					105					110		
Lys	Gly	Thr	Ser	Ser	Cys	Phe	Gly	Glu	Thr	Ser	His	Gln	Trp	Leu	Phe
		115					120					125			
Leu	Tyr	Gln	Leu	Glu	Gln	Leu	Leu	Ala	Glu	Arg	Lys	Ser	Ala	Asp	Pro
	130					135					140				
Glu	Ser	Ser	Tyr	Thr	Ala	Lys	Leu	Tyr	Ala	Ser	Gly	Thr	Lys	Arg	Ile
145					150					155					160
Ala	Gln	Lys	Val	Gly	Glu	Glu	Gly	Val	Glu	Thr	Ala	Leu	Ala	Ala	Thr
				165					170					175	
Val	His	Asp	Arg	Glu	Glu	Leu	Thr	Asn	Glu	Ala	Ser	Asp	Leu	Met	Tyr
			180					185					190		
His	Leu	Leu	Val	Leu	Leu	Gln	Asp	Gln	Glu	Leu	Asp	Leu	Thr	Thr	Val
	195						200					205			
Ile	Glu	Asn	Leu	Arg	Lys	Arg	His	Lys							
	210					215									

<210> 7389

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7389

Val	Ser	Val	Ile	Trp	Tyr	Leu	Leu	Asn	Ser	Ala	Ser	Thr	Leu	Glu	Arg
1				5					10					15	
Leu	Tyr	Phe	Pro	Lys	Val	Gln	His	Ala	Thr	Asp	Lys	Met	Ser	Lys	Ala
			20					25					30		
Glu	Ser	Glu	Tyr	Gln	Asp	Ala	Val	Glu	Ser	Arg	Ser	Val	Leu	Ile	Asn
		35					40					45			
Gln	Lys	Thr	Ala	Glu	Tyr	Leu	Ala	Asn	Pro	Ser	Glu	Arg	His	Gly	Phe
	50					55					60				
Ile	Val	Lys	Gln	Val	Tyr	Pro	Thr	Asn	Gln	Gln	Gln	Val	Ile	Gln	Ser
65					70				75						80
Met	Ala	Glu	Gln	Gly	Tyr	Met	Val	His	Arg	Val	Ser	Val	Gly	Met	Val
				85					90					95	
Thr	Phe	Ile	Arg	Met	Pro	Lys	Asn	Ala	Lys	Asp	Asn	Pro	Leu	Gln	Glu

			100				105					110			
Ile	Thr	Asp	Lys	Ala	Lys	Ala	Glu	Ala	Glu	Ser	Thr	Ile	Asp	Lys	Met
		115					120					125			
Ile	Glu	Arg	Leu	Lys	Val	Arg	Ala	Gly	Glu	Ala	Val	His	Gln	Arg	Asn
	130					135					140				
Lys	Ile	Val	Thr	Glu	Ala	Arg	Lys	Ala	Leu	Asp	Ser	Ile	Lys	Ser	Phe
145					150					155					160
Glu	Ser	Tyr	Leu	Asn	Val	Ile	Val	Thr	Asp	Ser	Glu	Glu	Val	Thr	Glu
			165					170					175		

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<210> 7390
<211> 853
<212> PRT
<213> Enterobacter cloacae
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<400> 7390															
Asn 1	Arg	Gly	Gln	Asn 5	Cys	Arg	Ser	Ala	Val 10	Phe	Pro	Gln	Pro	Arg 15	Ala
Arg	His	His	Ala 20	Asp	Ser	Gly	Tyr	Pro 25	Arg	Pro	Ala	Ala 30	Gly	Arg	Pro
Leu	Arg	Pro 35	Pro	Pro	Ala	Ala	Gly 40	Glu	Arg	Tyr	Ser	Ser 45	Gly	Gly	Ser
Met	Ile 50	Ala	Arg	Trp	Phe	Trp 55	Arg	Glu	Trp	Arg	Ser 60	Pro	Ser	Leu	Leu
Ile 65	Val	Trp	Leu	Ala	Leu 70	Ser	Leu	Ala	Val	Ala 75	Cys	Val	Leu	Ala 80	Leu
Gly	Ser	Val	Ser	Asp 85	Arg	Met	Glu	Lys	Gly 90	Leu	Ser	Gln	Gln 95	Ser	Arg
Glu	Phe	Met	Ala 100	Gly	Asp	Arg	Ala	Leu 105	Gln	Ser	Ser	Arg	Pro 110	Val	Pro
Pro	Gly	Trp 115	Ile	Glu	Glu	Ala	Arg	Lys	Glu	Gly	Leu	Lys 125	Val	Gly	Glu
Gln	Ile 130	Thr	Phe	Gln	Thr	Met 135	Thr	Phe	Ala	Gly	Asp 140	Thr	Pro	Gln	Leu
Ala 145	Ser	Val	Lys	Ala	Val 150	Asp	Asp	Ile	Tyr	Pro	Met 155	Tyr	Gly	Asp 160	Leu
Gln	Thr	Ser	Pro	Pro 165	Gly	Leu	Lys	Pro	Thr	Ala	Gly	Thr	Val	Leu 175	Leu
Ala	Ser	Arg	Leu 180	Met	Ala	Leu	Leu	Asn 185	Leu	Lys	Pro	Gly	Asp 190	Ser	Ile
Asp	Val	Gly 195	Asp	Ala	Thr	Leu	Lys 200	Ile	Ala	Gly	Glu	Val 205	Val	Gln	Glu
Pro	Asp 210	Ser	Gly	Phe	Asn 215	Pro	Phe	Gln	Leu	Ala	Pro	Arg 220	Leu	Leu	Met
Asn 225	Thr	Ala	Asp	Val	Ala 230	Lys	Thr	His	Ala	Val 235	Gln	Pro	Gly	Ser 240	Arg
Val	Thr	Trp	Arg	Tyr 245	Lys	Phe	Gly	Gly	Thr	Pro	Ala	Gln	Leu	Glu 255	Ala
Tyr	Glu	Lys	Trp 260	Leu	Leu	Pro	Gln	Leu	Lys 265	Pro	Glu	His	Arg 270	Trp	Tyr
Gly	Leu	Glu	Gln 275	Asp	Asp	Gly	Ala 280	Leu	Gly	Lys	Ser	Leu 285	Glu	Arg	Ser
Gln	Gln 290	Phe	Leu	Leu	Leu	Ser 295	Ala	Leu	Leu	Thr	Leu	Leu	Leu	Ala	Ile
Ala 305	Ala	Val	Ala	Val	Ala 310	Met	Gly	His	Tyr	Cys 315	Arg	Ser	Arg	Tyr	Asp
Leu	Val	Ala	Ile	Leu 325	Lys	Thr	Leu	Gly	Ala 330	Gly	Arg	Ala	Gln	Leu 335	Arg
Lys	Leu	Ile	Val	Gly	Gln	Trp	Leu	Met	Val	Leu	Ala	Leu	Ser	Ala	Leu

			340					345					350			
Thr	Gly	Gly	Ala	Ile	Gly	Leu	Leu	Phe	Glu	Lys	Leu	Leu	Met	Val	Leu	
		355					360					365				
Leu	Lys	Pro	Val	Leu	Pro	Ala	Ala	Leu	Pro	Pro	Ala	Ser	Leu	Trp	Pro	
	370					375					380					
Trp	Leu	Trp	Ala	Ile	Gly	Ala	Met	Thr	Thr	Ile	Ser	Leu	Leu	Val	Gly	
385					390					395					400	
Leu	Arg	Pro	Tyr	Arg	Leu	Leu	Leu	Ala	Thr	Gln	Pro	Leu	Arg	Val	Leu	
				405					410					415		
Arg	Arg	Asp	Val	Val	Ala	Ser	Val	Trp	Pro	Leu	Lys	Phe	Tyr	Leu	Pro	
			420					425					430			
Val	Ile	Ile	Ala	Val	Ala	Val	Gly	Leu	Leu	Ala	Trp	Leu	Met	Gly	Gly	
		435					440					445				
Ser	Thr	Leu	Leu	Trp	Ala	Val	Leu	Ala	Gly	Ala	Val	Val	Leu	Ala	Leu	
	450					455					460					
Leu	Cys	Gly	Val	Val	Gly	Trp	Ile	Leu	Leu	Asn	Val	Leu	Arg	Lys	Leu	
465					470					475					480	
Thr	Val	Lys	Ser	Leu	Pro	Ile	Arg	Leu	Ala	Val	Asn	Arg	Leu	Leu	His	
				485					490					495		
Gln	Pro	Trp	Ser	Thr	Leu	Ser	Gln	Leu	Ser	Ala	Phe	Ser	Leu	Ser	Phe	
			500					505					510			
Met	Leu	Leu	Ala	Leu	Leu	Leu	Val	Leu	Arg	Gly	Asp	Leu	Leu	Asp	Arg	
		515					520					525				
Trp	Gln	Gln	Gln	Leu	Pro	Pro	Glu	Ser	Pro	Asn	Tyr	Phe	Leu	Ile	Asn	
	530					535					540					
Ile	Ala	Pro	Glu	Gln	Val	Thr	Pro	Leu	Lys	Gly	Phe	Leu	Ser	Glu	His	
545					550					555					560	
His	Ile	Ile	Pro	Glu	Ser	Phe	Tyr	Pro	Ile	Val	Arg	Ala	Arg	Leu	Thr	
				565					570					575		
Gln	Ile	Asn	Gly	Gln	Ser	Thr	Glu	Gly	Asn	Lys	Asp	Glu	Ser	Leu	Asn	
			580					585					590			
Arg	Glu	Leu	Asn	Leu	Thr	Trp	Gln	Ala	Lys	Arg	Pro	Asp	His	Asn	Pro	
		595					600					605				
Ile	Val	Ala	Gly	Thr	Trp	Pro	Pro	Lys	Ala	Gly	Glu	Val	Ser	Met	Glu	
	610					615					620					
Glu	Gly	Leu	Ala	Thr	Arg	Leu	Asn	Val	Asn	Leu	Gly	Asp	Ser	Val	Thr	
625					630					635					640	
Phe	Thr	Gly	Asp	Thr	Gln	Asp	Phe	Thr	Ala	Lys	Val	Thr	Ser	Leu	Arg	
				645					650					655		
Lys	Val	Asp	Trp	Glu	Ser	Leu	Arg	Pro	Asn	Phe	Phe	Phe	Ile	Phe	Pro	
			660					665					670			
Pro	Gly	Ala	Leu	Asp	Gly	Gln	Pro	Gln	Ser	Trp	Leu	Thr	Ser	Phe	Arg	
		675					680					685				
Trp	Glu	Asn	Gly	Asn	Gly	Met	Leu	Thr	Gln	Leu	Asn	Arg	Glu	Phe	Pro	
	690															

Gly Gly Trp Leu Gly Ser Arg Leu Leu Lys Gly Lys Ala Leu Phe Arg
 835 840 845
 Gln Phe Val Ser
 850

<210> 7391

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7391

Arg Cys Val Ala Glu Arg Ile Met Leu Lys Ala Leu Leu Ile Thr Ala
 1 5 10 15
 Val Asn Gly Ile Gly Met Asn Asn Lys Lys Asn Leu Leu Asp Ile Arg
 20 25 30
 Asp Val Gly Phe Arg Val Gly Asp Asn Thr Ile Leu Gln His Val Asp
 35 40 45
 Phe Cys Leu Ser Pro Gly Glu Phe Lys Leu Ile Thr Gly Pro Ser Gly
 50 55 60
 Cys Gly Lys Ser Thr Leu Leu Lys Ile Val Ala Ser Leu Leu Ser Pro
 65 70 75 80
 Thr Glu Gly Thr Ile Leu Phe Ala Gly Lys Asp Ile Ala Thr Phe Ser
 85 90 95
 Ser Glu Ser Tyr Arg Gln Gln Val Ser Tyr Cys Val Gln Thr Pro Ser
 100 105 110
 Leu Phe Gly Asp Thr Val Tyr Asp Asn Leu Val Phe Pro Trp His Ile
 115 120 125
 Arg Asn Gln Thr Pro Asp Pro Lys Lys Phe Thr Asp Asp Leu Thr Arg
 130 135 140
 Phe Gly Leu Ser Pro Glu Thr Leu Thr Lys Ser Ile Ala Glu Leu Ser
 145 150 155 160
 Gly Gly Glu Lys Gln Arg Val Ser Leu Ile Arg Asn Leu Gln Phe Leu
 165 170 175
 Pro Lys Ala Leu Leu Leu Asp Glu Ile Thr Ser Ala Leu Asp Asp Ala
 180 185 190
 Asn Lys Arg Asn Val Asn Asp Ile Ile His Arg Tyr Ala Arg Glu Gln
 195 200 205
 Asn Ile Ala Val Leu Trp Val Thr His Asp Ser Asn Glu Ile Thr His
 210 215 220
 Ala Asp Asp Val Ile Thr Leu Arg Pro Gln Gly Gly Lys Met Glu Glu
 225 230 235 240
 Ala His Arg Gly
 245

<210> 7392

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7392

Arg Val Arg Ser Arg Arg Ala Glu Gly His Gln His Gln Lys Gln Glu
 1 5 10 15
 Gly Gln Met Pro Ala Glu Asn Ile Val Glu Val His Arg Leu Lys Lys
 20 25 30
 Ser Val Gly Gln Gly Glu His Glu Leu Ser Ile Leu Thr Gly Val Glu
 35 40 45
 Leu Val Val Lys Arg Ala Glu Thr Ile Ala Leu Ile Gly Glu Ser Gly
 50 55 60
 Ser Gly Lys Ser Thr Leu Leu Ala Ile Leu Ala Gly Leu Asp Asp Gly
 65 70 75 80
 Ser Ser Gly Glu Val Asn Leu Val Gly Gln Pro Leu His Ala Leu Asp

				85				90					95				
Glu	Glu	Ala	Arg	Ala	Ala	Leu	Arg	Ala	Arg	His	Ile	Gly	Phe	Val	Phe		
			100					105					110				
Gln	Ser	Phe	Met	Leu	Ile	Pro	Thr	Leu	Asn	Ala	Leu	Glu	Asn	Val	Glu		
		115					120					125					
Leu	Pro	Gly	Leu	Leu	Arg	Gly	Glu	Asn	Thr	Arg	Glu	Ser	Arg	Asp	His		
	130					135					140						
Ala	Lys	Ala	Leu	Leu	Glu	Gln	Leu	Gly	Leu	Gly	Lys	Arg	Leu	Asp	His		
145					150					155					160		
Leu	Pro	Ala	Gln	Leu	Ser	Gly	Gly	Glu	Gln	Gln	Arg	Val	Ala	Leu	Ala		
			165					170						175			
Arg	Ala	Phe	Asn	Gly	Arg	Pro	Glu	Val	Leu	Phe	Ala	Asp	Glu	Pro	Thr		
			180					185					190				
Gly	Asn	Leu	Asp	Arg	Lys	Thr	Gly	Asp	Lys	Ile	Ala	Asp	Leu	Leu	Phe		
	195						200					205					
Ser	Leu	Asn	Arg	Glu	His	Gly	Thr	Thr	Leu	Ile	Leu	Val	Thr	His	Asp		
	210					215					220						
Pro	Gln	Leu	Ala	Ala	Arg	Cys	Asp	Arg	Arg	Leu	Arg	Leu	Val	Asn	Gly		
225					230					235					240		
Ile	Leu	Gln	Glu	Glu	Ala												
				245													

<210> 7393

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7393

Lys	Thr	Gln	Lys	Thr	Gly	Gly	Tyr	Arg	Arg	Phe	Phe	Cys	Leu	Gln	Met		
1			5					10						15			
Gln	Ile	Arg	Asn	Lys	Glu	Cys	Arg	His	Glu	Leu	Leu	Ala	Asp	Gly	His		
			20					25					30				
Ala	Cys	Asn	His	Asn	Val	Phe	Phe	Arg	Asn	Val	Leu	Val	His	Thr	Ala		
	35					40					45						
Ala	Ala	Ser	Arg	Asn	Gly	Phe	Asp	Leu	Val	Asp	His	Val	His	Pro	Phe		
	50				55					60							
Asn	His	Phe	Cys	Glu	Tyr	Ala	Val	Ala	Pro	Ala	Leu	Gln	Thr	Phe	Ala		
65					70				75					80			
Arg	Glu	Val	Gln	Glu	Val	Val	Val	Arg	Tyr	Val	Asp	Glu	Glu	Leu	Cys		
			85					90					95				
Gly	Cys	Arg	Met	Trp	Arg	Leu	Ser	Thr	Gly	His	Cys	Gln	Arg	Thr	Thr		
			100				105						110				
Gly	Val	Phe	Gln	Ala	Val	Val	Arg	Phe	Val	Phe	Asp	Arg	Phe	Phe	Arg		
	115						120					125					
Leu	Phe	Leu	Ala	His	Ala	Arg	Leu	Glu	Thr	Ala	Ala	Leu	Asp	His	Lys		
	130					135					140						
Ala	Val	Asp	His	Thr	Val	Glu	Asn	Ser	Val	Val	Val	Glu	Thr	Phe	Ala		
145					150					155					160		
Ala	Val	Val	Gln	Glu	Val	Phe	Asn	Cys	Phe	Arg	Arg	Phe	Val	Ile	Lys		
			165					170						175			
Gly	Phe	Asp	Tyr	Asp	Ile	Ala	Met	Ile	Ser	Val	Glu	Ser	Asn	His	Phe		
		180					185						190				
Cys	Ile	Leu	Phe	Arg	Tyr	Cys	Gly	Ala	Ser	Thr	Arg	Ala	Arg	Val	Thr		
	195						200					205					
Tyr	Arg	Gly	Leu	Leu													
	210																

<210> 7394

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 7394

Arg	Met	Ile	Gln	Met	Lys	Leu	Pro	Met	Arg	Met	Met	Ser	Ser	Arg	Ser
1				5					10					15	
Gly	Arg	Arg	Ala	Gly	Lys	Trp	Arg	Arg	Leu	Thr	Val	Gly	Glu	His	Asn
			20					25					30		
Ile	Thr	Asn	Glu	Ser	Leu	Ala	Leu	Ser	Met	Val	Leu	Val	Leu	Val	Ala
		35					40					45			
Ile	Val	Val	Ser	Tyr	Arg	Glu	Lys	Leu	Gly	Leu	Glu	Lys	Asp	Ile	Leu
	50					55					60				
Trp	Ser	Ile	Ala	Arg	Ala	Val	Ile	Gln	Leu	Ile	Ile	Val	Gly	Tyr	Val
65					70					75					80
Leu	Lys	Tyr	Ile	Phe	Asn	Val	Asn	His	Ala	Val	Leu	Thr	Leu	Leu	Met
				85					90					95	
Val	Leu	Phe	Ile	Cys	Phe	Asn	Ala	Ala	Trp	Asn	Ala	Gln	Lys	Arg	Ser
			100					105					110		
Lys	Tyr	Ile	Asp	Lys	Ala	Phe	Ile	Ser	Ser	Leu	Ile	Ala	Ile	Thr	Thr
		115					120					125			
Gly	Thr	Ala	Leu	Thr	Leu	Ala	Val	Leu	Val	Leu	Ser	Gly	Ser	Ile	Glu
	130					135					140				
Phe	Thr	Pro	Met	Gln	Val	Ile	Pro	Ile	Ser	Gly	Met	Ile	Ala	Gly	Asn
145					150					155					160
Ala	Met	Val	Ala	Val	Gly	Leu	Cys	Tyr	Asn	Asn	Leu	Gly	Gln	Arg	Phe
				165					170					175	
Ser	Ser	Glu	Gln	Gln	Gln	Leu	Gln	Glu	Lys	Leu	Ser	Leu	Gly	Ala	Thr
			180					185					190		
Pro	Lys	Val	Ala	Ser	Ala	Arg	Leu	Ile	Arg	Asp	Ser	Ile	Arg	Ser	Ser
		195					200					205			
Leu	Ile	Pro	Thr	Val	Asp	Ser	Ala	Lys	Thr	Val	Gly	Leu	Val	Ser	Leu
	210					215					220				
Pro	Gly	Met	Met	Ser	Gly	Leu	Ile	Phe	Ala	Gly	Ile	Asp	Pro	Val	Lys
225					230					235					240
Ala	Ile	Lys	Tyr	Gln	Ile	Met	Val	Thr	Phe	Met	Leu	Leu	Ser	Thr	Ala
				245					250					255	
Ser	Leu	Ser	Thr	Ile	Ile	Ala	Cys	Tyr	Leu	Thr	Tyr	Arg	Lys	Phe	Tyr
			260					265					270		
Asn	Ala	Arg	His	Gln	Leu	Val	Val	Thr	Gln	Leu	Lys	Lys	Thr	Gly	
		275					280					285			

<210> 7395

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 7395

Arg	Val	Tyr	Gln	Gly	Lys	Arg	Met	Thr	Ile	Arg	Lys	Thr	Ala	Leu	Ala
1				5					10					15	
Thr	Thr	Ile	Gly	Ala	Ala	Val	Ala	Leu	Ala	Ser	Phe	Ala	Ser	Gln	Ala
			20					25					30		
Glu	Ile	Thr	Leu	Leu	Lys	Gln	Asp	Pro	Gln	Ala	Gly	Asn	Pro	Leu	Ser
		35					40					45			
Arg	Leu	Asn	Phe	Thr	Val	Gly	Gly	Ser	Ile	Arg	Pro	Gln	Phe	Gln	Asn
	50					55					60				
Met	Thr	Gly	Asp	Asp	Gly	Lys	Asn	Gly	Tyr	Lys	Arg	Asn	Gly	Phe	Asp
65					70					75					80
Gly	Gly	Thr	Arg	Phe	Arg	Phe	Ala	Ala	Asp	Tyr	Tyr	Leu	Phe	Asp	Asp
				85					90					95	
Ile	Ser	Trp	Ile	Thr	Tyr	Tyr	Glu	Leu	Gly	Val	Asn	Ile	Pro	Ala	Gln
			100					105					110		
Phe	Asn	Trp	Asp	Asn	His	Tyr	Ala	Asp	Gly	Ala	His	Asp	Thr	Ser	Arg
		115					120					125			

Arg Met Leu Tyr Thr Gly Leu Lys Ser Asp Thr Trp Gly Thr Leu Thr
 130 135 140
 Phe Gly Gln Gln Asn Ser Val Tyr Tyr Asp Val Val Gly Ala Lys Thr
 145 150 155 160
 Asp Ile Trp Asp Tyr Asp Met Ile Gly Gln Ala Pro Gly Asn Gly Ile
 165 170 175
 Asn Gly Asp Tyr Asp Gly Ser Tyr Arg Ser Arg Gln Met Leu Lys Tyr
 180 185 190
 Lys Lys Thr Val Gly Asp Ala Asp Ile Tyr Ala Ser Tyr Leu Phe Glu
 195 200 205
 Asp Ser Glu Tyr Leu Pro Gly Asn Gly Leu Arg Tyr Lys Arg Lys Gly
 210 215 220
 Gly Gly Ser Leu Gly Ile Asp Tyr His Leu Thr Thr Asp Leu Thr Trp
 225 230 235 240
 Gly Ala Ala Trp Asn Tyr Thr Arg Ala Asp Met Arg Asn Pro Asp Asn
 245 250 255
 Gly Asp Ser Lys Ser Tyr Asp Gln Asn Ile Leu Gly Thr Ala Leu Ser
 260 265 270
 Trp Thr Pro Asp Asn Trp Thr Phe Ser Ala Gly Gly Gly Trp Tyr Gln
 275 280 285
 Asn Phe Leu Thr Thr Lys Lys Val Ser Val Asn Asp Tyr Phe Ala Gly
 290 295 300
 Asp Ala Trp Gly Ile Glu Tyr Phe Ala Gly Tyr Lys Phe Pro Val Gly
 305 310 315 320
 Gln Tyr Ala Val Lys Ser Ile Gln Pro Tyr Phe Met Gly Asp Arg Ile
 325 330 335
 Glu Tyr Val Asn Gly Arg Asn Tyr Gln Arg Ile Asp Asn Gly Val Gly
 340 345 350
 Ile Ser Phe Gln Leu Asp Tyr Gly Phe Arg Val Asp Tyr Glu His Val
 355 360 365
 Phe Thr Ser Cys Thr Asp Asn Leu Gly Asp Met Asn Leu Val Arg Leu
 370 375 380
 Arg Tyr Asp Phe
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<210> 7396

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7396

Leu Val Trp Lys Val Thr Ile Phe Ala Ser Cys Ser Val Ile Val Val
 1 5 10 15
 Arg Arg Pro Val Leu Gly Ser His Ile Gly Ala Cys Tyr Ser Ile Thr
 20 25 30
 Thr Gly His Asp His Leu Ala Leu Cys Ala Asp Arg Thr Pro Asn Tyr
 35 40 45
 Gly Tyr Tyr Lys Glu Gln Thr Ile His Thr Arg Val Tyr Met Glu Ser
 50 55 60
 Ser Met Leu Lys Ile Phe Asn Thr Met Thr Arg Gln Lys Glu Glu Phe
 65 70 75 80
 Lys Pro Ile His Ala Gly Glu Val Gly Met Tyr Val Cys Gly Ile Thr
 85 90 95
 Val Tyr Asp Leu Cys His Ile Gly His Gly Arg Thr Phe Val Ala Phe
 100 105 110
 Asp Val Val Ser Arg Tyr Leu Arg Phe Leu Gly Tyr Asn Leu Lys Tyr
 115 120 125
 Val Arg Asn Ile Thr Asp Ile Asp Asp Lys Ile Ile Lys Arg Ala Asn
 130 135 140
 Glu Asn Gly Glu Ser Phe Val Ala Leu Val Asp Arg Met Ile Ala Glu
 145 150 155 160

Met	His	Lys	Asp	Phe	Asp	Ala	Leu	Asn	Ile	Leu	Arg	Pro	Asp	Ser	Glu
				165					170					175	
Pro	Arg	Ala	Thr	His	His	Ile	His	Glu	Ile	Ile	Asp	Ile	Thr	Gln	Lys
			180					185					190		
Leu	Ile	Glu	Arg	Gly	His	Ala	Tyr	Val	Ala	Asp	Asn	Gly	Asp	Val	Met
		195					200					205			
Phe	Ser	Val	Pro	Thr	Asp	Pro	Thr	Tyr	Gly	Ala	Leu	Ser	Arg	Gln	Asp
	210					215					220				
Leu	Asp	Gln	Leu	Gln	Ala	Gly	Ala	Arg	Val	Asp	Val	Val	Asp	Val	Lys
225					230					235					240
Arg	Asn	Pro	Met	Asp	Phe	Val	Leu	Trp	Lys	Met	Ser	Lys	Ala	Gly	Glu
				245					250					255	
Pro	Ser	Trp	Pro	Ser	Pro	Trp	Gly	Glu	Gly	Arg	Pro	Gly	Trp	His	Ile
			260					265					270		
Glu	Cys	Ser	Ala	Met	Asn	Cys	Lys	Gln	Leu	Gly	Asn	His	Phe	Asp	Ile
		275					280					285			
His	Gly	Gly	Gly	Ser	Asp	Leu	Met	Phe	Pro	His	His	Glu	Asn	Glu	Ile
	290					295					300				
Ala	Gln	Ser	Thr	Cys	Ala	His	Gly	Gly	Glu	Tyr	Val	Asn	Tyr	Trp	Met
305					310					315					320
His	Ser	Gly	Met	Val	Met	Val	Asp	Arg	Glu	Lys	Met	Ser	Lys	Ser	Leu
				325					330					335	
Gly	Asn	Phe	Phe	Thr	Val	Arg	Asp	Val	Leu	Lys	Tyr	Tyr	Asp	Ala	Glu
			340					345					350		
Thr	Val	Arg	Tyr	Phe	Leu	Met	Ser	Gly	His	Tyr	Arg	Ser	Gln	Leu	Asn
		355					360					365			
Tyr	Ser	Glu	Glu	Asn	Leu	Lys	Gln	Ala	Arg	Ala	Ala	Leu	Glu	Arg	Leu
	370					375					380				
Tyr	Thr	Ala	Leu	Arg	Gly	Thr	Asp	Lys	Ser	Val	Pro	Ala	Ala	Gly	Gly
385					390					395					400
Glu	Ala	Phe	Glu	Ala	Arg	Phe	Val	Glu	Val	Met	Asn	Asp	Asp	Phe	Asn
				405				410						415	
Thr	Pro	Glu	Ala	Tyr	Ser	Val	Leu	Phe	Asp	Met	Ala	Arg	Glu	Val	Asn
			420					425					430		
Arg	Leu	Lys	Ser	Glu	Asp	Met	Ala	Ala	Ala	Asn	Ala	Leu	Ala	Ser	His
		435					440					445			
Leu	Arg	Lys	Leu	Ser	Ser	Val	Leu	Gly	Leu	Leu	Glu	Gln	Glu	Pro	Asp
	450					455					460				
Val	Phe	Leu	Gln	Ser	Gly	Ala	Gln	Ala	Asp	Asp	Gly	Glu	Val	Ala	Glu
465					470					475					480
Ile	Glu	Ala	Leu	Ile	Lys	Ala	Arg	Leu	Glu	Ala	Arg	Gln	Ala	Lys	Asp
				485					490					495	
Trp	Ala	Ala	Ala	Asp	Ala	Ala	Arg	Asn	Arg	Leu	Thr	Glu	Met	Gly	Ile
			500					505					510		
Ile	Leu	Glu	Asp	Gly	Pro	Gln	Gly	Thr	Thr	Trp	Arg	Arg	Lys		
		515					520					525			

<210> 7397

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 7397

Asn	Val	Leu	Leu	Thr	Ile	Thr	Ala	Gln	Lys	Lys	Arg	Tyr	Ser	Gly	Glu
1				5					10					15	
Ile	Ser	Met	Ser	Leu	Ile	Ser	Gly	Phe	Val	Lys	Ser	Leu	Ser	Lys	Leu
			20					25					30		
Ser	Met	Ile	Gly	Arg	Ala	Leu	Met	Leu	Pro	Ile	Ser	Leu	Leu	Pro	Ala
		35					40					45			
Ala	Gly	Leu	Leu	Leu	Ala	Phe	Gly	Asp	Lys	Phe	His	Leu	Pro	Leu	Met
	50					55					60				

Met	Asn	Ala	Gly	Gly	Val	Ile	Phe	Asp	Asn	Leu	Pro	Met	Leu	Phe	Ala
65					70					75					80
Ile	Gly	Ser	Ala	Val	Gly	Leu	Ala	Ser	Glu	Ser	Gly	Ile	Ala	Ala	Leu
				85					90					95	
Ser	Ala	Ala	Val	Ser	Val	Phe	Val	Thr	Asn	Ile	Thr	Ile	Ser	Thr	Val
			100					105					110		
Leu	Ser	Ile	Thr	Pro	Glu	Met	Ala	Ser	Gln	Gly	Gly	Lys	Tyr	Ala	Met
			115				120					125			
Val	Val	Gly	Ile	Pro	Thr	Leu	Gln	Met	Gly	Val	Phe	Gly	Gly	Leu	Ile
			130			135					140				
Cys	Gly	Ile	Leu	Ala	Ala	Trp	Cys	Tyr	Asn	Arg	Phe	His	Thr	Met	Gln
145					150					155					160
Leu	Pro	Glu	Phe	Leu	Gly	Phe	Phe	Ser	Gly	Lys	Arg	Phe	Val	Ala	Ile
				165					170					175	
Ala	Thr	Ala	Phe	Leu	Ser	Phe	Leu	Leu	Gly	Leu	Leu	Leu	Pro	Tyr	Val
			180				185						190		
Trp	Gln	His	Ile	Gln	Ser	Gly	Ile	Asp	Ala	Leu	Ser	Val	Val	Val	Asn
			195				200					205			
Gly	Asp	Asn	Gln	Ala	Ala	Ser	Thr	Phe	Ile	Phe	Gly	Leu	Val	Glu	Arg
	210					215					220				
Ala	Leu	Ile	Pro	Leu	Gly	Leu	His	His	Ile	Trp	Tyr	Pro	Ser	Phe	Trp
225					230					235					240
Tyr	Ser	Phe	Gly	Asp	Tyr	Thr	Thr	Gln	Ala	Gly	Gln	Val	Ile	His	Gly
				245					250					255	
Asp	Gln	Thr	Ile	Trp	Phe	Lys	Met	Leu	Glu	Glu	Gly	Val	Lys	Ser	Phe
			260				265					270			
Ser	Ser	Asp	Thr	Tyr	Gln	Asn	Ala	Gly	Lys	Phe	Met	Gln	Gly	Glu	Phe
		275					280					285			
Pro	Leu	Met	Leu	Phe	Ala	Leu	Pro	Ala	Ala	Cys	Leu	Ala	Met	Tyr	His
	290					295				300					
Glu	Ala	His	Thr	Lys	Asn	Lys	Lys	Ile	Ala	Ala	Gly	Ile	Leu	Phe	Ser
305					310					315					320
Ala	Ala	Leu	Thr	Cys	Phe	Leu	Thr	Gly	Ile	Thr	Glu	Pro	Val	Glu	Phe
				325					330					335	
Thr	Phe	Ile	Phe	Val	Ala	Pro	Ile	Leu	Tyr	Val	Phe	Asn	Ala	Ile	Met
			340					345					350		
Ala	Gly	Leu	Ala	Tyr	Met	Thr	Met	Tyr	Leu	Leu	His	Ala	His	Ile	Ala
		355					360					365			
Lys	Ser	Phe	Ser	Ala	Gly	Phe	Ile	Asp	Tyr	Leu	Ser	Phe	Gly	Ile	Leu
	370					375					380				
Pro	Ser	Phe	Asn	Gly	Tyr	Gln	Thr	Asn	Phe	Leu	Ser	Ala	Ile	Ile	Val
385					390					395					400
Gly	Ile	Pro	Met	Ala	Leu	Ile	Tyr	Tyr	Phe	Thr	Phe	Arg	Phe	Val	Ile
				405					410					415	
Arg	Arg	Phe	Asp	Val	Lys	Thr	Pro	Gly	Arg	Thr	Glu	Val	Thr	Ala	Ser
			420					425					430		
Ala	Asn	Asp	Lys	Ser	Asp	Ser	Glu	Leu	Ala	Thr	Glu	Ile	Ile	Gly	Leu
		435					440					445			
Leu	Gly	Gly	Ala	Gln	Asn	Ile	Asp	Ser	Val	Gly	Ser	Cys	Ile	Thr	Arg
	450					455					460				
Leu	Arg	Leu	Glu	Val	Ala	Asn	Ser	Glu	Ala	Val	Asp	Arg	Asp	Gly	Leu
465					470					475					480
Asn	Gly	Leu	Gly	Ala	Arg	Gly	Val	Val	Phe	Val	Gly	Asp	Asn	Gly	Ile
				485					490					495	
Gln	Val	Ile	Phe	Gly	Ala	Arg	Ala	Gln	Phe	Ile	Ala	Gln	Thr	Met	Ser
			500					505					510		
Thr	Met	Ile	Gly	Lys											
			515												

<210> 7398

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 7398

Leu	Leu	Tyr	Phe	His	Asp	Leu	Pro	Trp	Ile	Asn	Ala	Met	Pro	Thr	Val
1				5					10					15	
Ile	Thr	His	Ala	Ala	Val	Pro	Leu	Cys	Leu	Gly	Leu	Gly	Leu	Gly	Thr
			20					25					30		
Asn	Val	Ile	Pro	Pro	Arg	Leu	Leu	Phe	Ala	Gly	Ile	Val	Leu	Ala	Met
		35				40						45			
Leu	Pro	Asp	Ala	Asp	Val	Leu	Ala	Phe	Lys	Phe	Gly	Val	Ala	Tyr	Gly
	50					55					60				
Asn	Ile	Phe	Gly	His	Arg	Gly	Phe	Thr	His	Ser	Leu	Leu	Phe	Ala	Leu
65					70					75					80
Val	Val	Pro	Ile	Leu	Cys	Val	Leu	Ala	Gly	Arg	Arg	Trp	Phe	Arg	Ala
				85					90					95	
Ser	Leu	Thr	Arg	Cys	Trp	Leu	Phe	Leu	Thr	Val	Ser	Leu	Leu	Ser	His
			100					105					110		
Ser	Leu	Leu	Asp	Ser	Ile	Thr	Thr	Gly	Gly	Lys	Gly	Val	Gly	Trp	Leu
		115					120					125			
Trp	Pro	Trp	Ser	Asp	Glu	Arg	Phe	Phe	Ala	Pro	Trp	Gln	Val	Ile	Lys
	130					135					140				
Val	Ala	Pro	Phe	Ala	Leu	Ser	Arg	Tyr	Thr	Thr	Pro	Tyr	Gly	His	Glu
145					150					155					160
Val	Ile	Ile	Ser	Glu	Leu	Leu	Trp	Val	Trp	Leu	Pro	Gly	Met	Val	Leu
				165					170					175	
Met	Gly	Met	Leu	Trp	Trp	Arg	Lys	Arg	Ala	Arg					
			180					185							

<210> 7399

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7399

Ser	Pro	Ser	Arg	Phe	Asn	Pro	Pro	Arg	Leu	Phe	Ala	His	Phe	Pro	Thr
1				5					10					15	
Thr	Gln	Pro	Phe	Ser	Leu	Pro	Val	Leu	His	Ala	Ile	Leu	Cys	Ala	Leu
			20					25					30		
Glu	Ser	Ser	Val	Phe	Arg	Thr	Thr	Gly	Val	Leu	Arg	Arg	Met	Ser	Ser
		35					40					45			
Arg	Asn	Asn	Pro	Ala	Arg	Val	Ala	Ile	Val	Met	Gly	Ser	Lys	Ser	Asp
	50					55					60				
Trp	Ala	Thr	Met	Gln	Phe	Ala	Ala	Glu	Ile	Phe	Glu	Ile	Leu	Asn	Val
65					70					75					80
Pro	His	His	Val	Glu	Val	Val	Ser	Ala	His	Arg	Thr	Pro	Asp	Lys	Leu
				85					90					95	
Phe	Ser	Phe	Ala	Glu	Ser	Ala	Glu	Glu	Asn	Gly	Tyr	Glu	Val	Ile	Ile
			100					105					110		
Ala	Gly	Ala	Gly	Gly	Ala	Ala	His	Leu	Pro	Gly	Met	Ile	Ala	Ala	Lys
		115					120					125			
Thr	Leu	Val	Pro	Val	Leu	Gly	Val	Pro	Val	Gln	Ser	Ala	Ala	Leu	Ser
	130					135					140				
Gly	Val	Asp	Ser	Leu	Tyr	Ser	Ile	Val	Gln	Met	Pro	Arg	Gly	Ile	Pro
145					150					155					160
Val	Gly	Thr	Leu	Ala	Ile	Gly	Lys	Ala	Gly	Ala	Ala	Asn	Ala	Ala	Leu
				165					170					175	
Leu	Ala	Ala	Gln	Ile	Leu	Ala	Thr	His	Asp	Lys	Glu	Leu	His	Gln	Arg
			180					185					190		
Leu	Ala	Glu	Trp	Arg	Lys	Ala	Gln	Thr	Asp	Glu	Val	Leu	Asp	Asn	Pro
		195					200					205			

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Asp Pro Arg Gly Ala Ala
210 215

<210> 7400
<211> 99
<212> PRT
<213> Enterobacter cloacae

<400> 7400
Arg Ile Pro Phe Thr Ser Arg Arg Arg Ser Gln Arg Ala Ala Ser
1 5 10 15
Cys Gly Ser Trp Val Thr Arg Ile Ser Val Val Pro Cys Ser Arg Leu
20 25 30
Arg Glu Asn Ser Arg Ser Ala Ile Leu Ser Pro Val Leu Arg Ser Arg
35 40 45
Leu Pro Val Gly Ser Ser Ala Asn Ser Thr Ser Gly Arg Pro Leu Asn
50 55 60
Ala Leu Ala Ser Ala Thr Arg Cys Cys Ser Pro Pro Glu Ser Cys Ala
65 70 75 80
Gly Arg Trp Ser Arg Arg Phe Pro Ser Pro Ser Cys Ser Ser Asn Ala
85 90 95
Phe Ala

<210> 7401
<211> 271
<212> PRT
<213> Enterobacter cloacae

<400> 7401
Ile Met Thr Arg Gln Thr Ala Glu Asn Leu Thr Gly Lys Val Met Gln
1 5 10 15
Lys Ser Val Leu Ile Thr Gly Cys Ser Ser Gly Ile Gly Leu Glu Ser
20 25 30
Ala Leu Glu Leu Lys Arg Gln Gly Phe Trp Val Leu Ala Ala Cys Arg
35 40 45
Lys Pro Glu Asp Val Glu Arg Met Arg Gly Leu Gly Phe Thr Gly Ile
50 55 60
Leu Leu Asp Leu Asp Ser Pro Glu Ser Val Glu Gln Ala Ala Asp Glu
65 70 75 80
Val Ile Ala Leu Thr Asn Asn Arg Leu Tyr Gly Leu Phe Asn Asn Ala
85 90 95
Gly Tyr Gly Val Tyr Gly Pro Leu Gln Thr Leu Ser Arg Glu Gln Leu
100 105 110
Glu Gln Gln Phe Ser Ala Asn Phe Phe Gly Ala His Gln Leu Thr Met
115 120 125
Arg Leu Leu Pro Ala Met Leu Pro His Gly Glu Gly Arg Ile Val Met
130 135 140
Thr Ser Ser Val Met Gly Leu Ile Ser Thr Pro Gly Arg Gly Ala Tyr
145 150 155 160
Ala Ala Ser Lys Tyr Ala Leu Glu Ala Trp Ser Asp Ala Leu Arg Met
165 170 175
Glu Leu Arg His Ser Gly Ile Lys Val Ser Leu Ile Glu Pro Gly Pro
180 185 190
Ile Arg Thr Arg Phe Thr Glu Asn Val Asn Gln Thr Gln Ala Asp Lys
195 200 205
Pro Val Glu Asn Pro Gly Ile Ala Ala Arg Phe Thr Leu Gly Pro Glu
210 215 220
Ala Val Val Ala Lys Val Arg His Ala Phe Glu Ser Asp Thr Pro Lys
225 230 235 240
Met Arg Tyr Pro Val Thr Leu Val Thr His Ala Val Gly Trp Leu Lys

				245					250				255
Arg	Leu	Leu	Pro	Gly	Arg	Met	Met	Asp	Lys	Ile	Leu	Gln	Gly
			260					265					270

<210> 7402

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7402

Arg	Phe	Ala	Pro	Arg	Ile	Pro	Asn	Gly	Ala	Phe	Tyr	Phe	Cys	Gln	Ser
1			5						10					15	
Gly	Ser	His	Leu	Phe	Thr	Gly	Ala	Lys	Ser	Cys	Ser	Leu	Ala	Asp	Ile
			20					25					30		
Leu	Thr	Phe	Asn	Lys	Tyr	Ala	Val	Phe	Ser	Leu	Arg	His	Ala	Lys	Gln
		35					40					45			
Glu	Val	Phe	Met	Leu	Ile	Val	Val	Pro	Val	Ile	Ile	Phe	Val	Ala	Leu
	50					55					60				
Leu	Phe	Val	Gly	Ala	Gly	Val	Lys	Ile	Val	Pro	Gln	Gly	Tyr	Gln	Trp
65					70					75					80
Thr	Val	Glu	Arg	Phe	Gly	Arg	Tyr	Thr	Asn	Thr	Leu	Gln	Pro	Gly	Leu
				85					90					95	
Ser	Leu	Ile	Val	Pro	Phe	Met	Asp	Arg	Ile	Gly	Arg	Lys	Ile	Asn	Met
			100					105					110		
Met	Glu	Gln	Val	Leu	Asp	Ile	Pro	Ser	Gln	Glu	Val	Ile	Ser	Lys	Asp
		115					120					125			
Asn	Ala	Asn	Val	Thr	Ile	Asp	Ala	Val	Cys	Phe	Ile	Gln	Val	Ile	Asp
	130					135					140				
Ala	Pro	Lys	Ala	Ala	Tyr	Glu	Val	Ser	Asn	Leu	Glu	Leu	Ala	Ile	Val
145					150					155					160
Asn	Leu	Thr	Met	Thr	Asn	Val	His	Asn	Lys	Tyr	Ala	Ser	Leu	Lys	Tyr
				165					170					175	

<210> 7403

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7403

Arg	Cys	Arg	Ser	Ala	Arg	Ile	Leu	Tyr	Tyr	Ser	Gly	Pro	Gly	Arg	Arg
1				5					10					15	
Trp	Pro	Asp	Asp	Gly	Ser	Asn	Thr	Asp	Ser	Glu	Tyr	Leu	Ala	Gly	Val
			20					25					30		
Arg	Gly	Val	Ser	Arg	Arg	Arg	Gly	Arg	Val	Ile	Met	Ala	Thr	Phe	Ser
		35					40					45			
Leu	Gly	Lys	His	Pro	His	Val	Glu	Leu	Cys	Asp	Leu	Leu	Lys	Leu	Glu
	50					55					60				
Gly	Trp	Ser	Glu	Ser	Gly	Ala	Gln	Ala	Lys	Ile	Val	Ile	Ala	Asp	Gly
65					70					75					80
Gln	Val	Thr	Val	Asp	Gly	Ala	Val	Glu	Thr	Arg	Lys	Arg	Cys	Lys	Ile
				85					90					95	
Val	Ala	Gly	Gln	Thr	Val	Ser	Phe	Ala	Gly	Gln	Ser	Val	Thr	Val	Thr
			100					105					110		

Ala

<210> 7404

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7404

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Thr Asp Lys Arg Glu Cys Arg Met Ser Val Gln Asn Ile Val Asn Ile
1      5      10      15
Thr Glu Ala Asn Leu Gln Gln Thr Leu Glu Gln Ser Met Thr Lys Pro
20     25     30
Val Leu Phe Tyr Phe Trp Ser Glu Arg Ser Gln His Cys Leu Gln Leu
35     40     45
Thr Pro Val Leu Glu Ser Leu Ala Ala Gln Tyr Asn Gly Gln Phe Ile
50     55     60
Leu Ala Lys Leu Asp Cys Asp Ala Glu Pro Met Val Ala Ser Gln Phe
65     70     75     80
Gly Leu Arg Ala Ile Pro Thr Val Tyr Leu Phe Gln Asn Gly Gln Pro
85     90     95
Val Asp Gly Phe Gln Gly Pro Gln Pro Glu Glu Ala Ile Arg Ala Leu
100    105    110
Leu Asp Lys Val Leu Pro Arg Glu Glu Glu Leu Lys Ala Gln Glu Ala
115    120    125
Met Ala Leu Met Gln Glu Gly Lys Tyr Asp Glu Ala Leu Pro Leu Leu
130    135    140
Lys Asp Ala Trp Gln Leu Ser Asn Gln Asn Ser Gln Ile Gly Leu Leu
145    150    155    160
Leu Ala Glu Thr Gln Ile Ala Leu His Arg Pro Glu Asp Ala Glu Ala
165    170    175
Val Leu Lys Thr Val Pro Met Gln Asp Gln Asp Thr Arg Tyr Gln Gly
180    185    190
Leu Val Ala Gln Ile Asp Leu Leu Lys Gln Ala Ala Asp Thr Pro Glu
195    200    205
Ile Gln Gln Leu Gln Gln Gln Val Ala Asp Asn Pro Gln Asp Ala Ala
210    215    220
Leu Ala Ser Gln Leu Ala Leu Gln Leu His Gln Val Gly Arg Asn Glu
225    230    235    240
Glu Ala Leu Glu Leu Leu Phe Ser His Leu Gln Lys Asp Leu Gly Ala
245    250    255
Ala Asp Gly Gln Ala Arg Lys Met Phe Gln Glu Ile Leu Ala Ala Leu
260    265    270
Gly Thr Gly Asp Ala Leu Ala Ser Lys Tyr Arg Arg Gln Leu Tyr Ala
275    280    285
Leu Leu Tyr
290

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<210> 7405

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7405

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Ser Leu Gly Ser Ala Asn Arg Val Leu Phe Gly Gly Glu Trp Ile Lys
1      5      10      15
Glu Gly Ala Leu Val Val Asp Val Gly Ile Asn Arg Leu Glu Asn Gly
20     25     30
Lys Val Val Gly Asp Val Val Tyr Glu Asp Ala Ala Ala Arg Ala Ser
35     40     45
Tyr Ile Thr Pro Val Pro Gly Gly Val Gly Pro Met Thr Val Ala Thr
50     55     60
Leu Ile Gln Asn Thr Leu Gln Ala Cys Glu Glu Tyr His Asp Val Glu
65     70     75     80
Asp Ala

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<210> 7406
 <211> 391
 <212> PRT
 <213> Enterobacter cloacae

<400> 7406

Arg	Asp	Thr	Gly	Asp	Phe	Arg	Gly	Gln	Ser	Thr	Val	Tyr	Arg	Pro	Asp
1				5					10					15	
Asp	Val	Tyr	Asp	Asp	Trp	Gln	Ile	Ile	Arg	Cys	Leu	Lys	Glu	Ala	Ser
			20					25					30		
Pro	Val	Arg	Trp	Gly	Ser	Pro	Leu	Ile	Trp	Leu	Ile	Ile	Gly	Lys	Phe
		35					40					45			
Gln	Gly	Ala	Val	Leu	Lys	Lys	Val	Ser	Ile	Ile	Asp	Val	Ala	Lys	His
	50					55					60				
Ala	Gly	Val	Ser	Val	Ser	Thr	Val	Ser	Leu	Val	Leu	Arg	Gln	Lys	Gly
65					70				75						80
Lys	Ile	Ser	Glu	Ala	Thr	Ile	Gly	Lys	Val	Asn	Ala	Ala	Ile	Thr	Thr
				85					90					95	
Leu	Gly	Tyr	Val	His	Asn	Val	Ala	Ala	Ala	Asn	Leu	Arg	Ala	Asn	Thr
			100					105					110		
Ser	Asn	Leu	Ile	Gly	Leu	Ile	Leu	Arg	Asp	Phe	Ser	Asp	Ser	Phe	Ser
	115						120					125			
Ile	Lys	Val	Met	Ala	Ser	Ile	Val	Gln	Glu	Leu	Glu	Lys	Gln	Gly	Tyr
	130					135					140				
Met	Val	Phe	Leu	Gly	Gln	Pro	Leu	Asn	Asp	Gly	Glu	His	Leu	Glu	Arg
145					150					155					160
Thr	Leu	Leu	Thr	Phe	Lys	Gln	Gln	Gly	Val	Ala	Gly	Val	Ile	Tyr	Leu
				165					170					175	
Ala	Ser	Asp	Thr	Arg	Thr	Ala	Ser	Leu	Pro	Glu	His	Ile	Arg	His	Cys
			180					185					190		
Pro	Leu	Pro	Leu	Val	Ala	Val	Ser	Gln	Ser	Leu	Leu	Glu	Glu	Lys	Cys
		195					200					205			
Asn	Leu	Val	Met	Arg	Asp	Asn	Arg	Gln	Ala	Ala	Asn	Leu	Ala	Ala	Arg
	210					215					220				
Tyr	Leu	Ile	Glu	Arg	Gly	His	Arg	Thr	Ile	Ala	Tyr	Ile	Gly	Gly	Arg
225					230					235					240
Asp	Gly	Cys	Arg	Ile	Arg	Glu	Gln	Arg	Leu	Leu	Gly	Phe	Arg	Ser	Ala
				245					250					255	
Met	Thr	Gln	Asn	Gly	Leu	Ile	Trp	Arg	Glu	Glu	Tyr	Ser	Pro	Ala	Cys
			260					265					270		
Thr	Asp	Asp	Thr	Gln	Ala	Ala	Ala	Met	Ala	Thr	Arg	Gln	Leu	Leu	Glu
		275					280					285			
Lys	Asn	Asn	Thr	Ile	Thr	Ala	Leu	Leu	Cys	His	Ser	Pro	Asp	Ala	Met
	290					295					300				
Ile	Gly	Ser	Ile	Ser	Gly	Ile	His	Gln	Val	Gly	Arg	Thr	Val	Gly	Lys
305					310					315					320
Asp	Val	Phe	Leu	Thr	Gln	Gln	Val	Ala	Leu	Ile	Gly	Phe	Glu	Asp	Met
				325					330					335	
Leu	His	Val	Asn	Leu	Thr	Ser	Pro	Ser	Leu	Thr	Tyr	Val	Ser	Ser	Ala
			340					345					350		
Ser	Glu	Glu	Thr	Gly	Arg	Gln	Ala	Ala	Gly	Leu	Met	Ile	Arg	Arg	Leu
		355					360					365			
Lys	Glu	Pro	Asp	Leu	Gln	Thr	Gln	Arg	Ile	Thr	Leu	Ser	Gly	Gln	Leu
	370					375					380				
Ile	Ala	Arg	Glu	Ser	Ala										
385					390										

<210> 7407
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 7407

Gln	Ala	Pro	Ile	Cys	Asp	Pro	Ser	Thr	Gly	Arg	Arg	Thr	Thr	Ile	Thr
1				5					10					15	
Glu	Gln	Asp	Ala	Lys	Met	Val	Thr	Phe	His	Thr	Asn	His	Gly	Asp	Ile
			20					25					30		
Val	Ile	Lys	Thr	Phe	Asp	Asp	Lys	Ala	Pro	Glu	Thr	Val	Lys	Asn	Phe
		35					40					45			
Leu	Asp	Tyr	Cys	Arg	Glu	Gly	Phe	Tyr	Asn	Asn	Thr	Ile	Phe	His	Arg
	50					55					60				
Val	Ile	Asn	Gly	Phe	Met	Ile	Gln	Gly	Gly	Gly	Phe	Glu	Pro	Gly	Met
65					70				75						80
Arg	Gln	Lys	Glu	Thr	Lys	Glu	Ala	Ile	Lys	Asn	Glu	Ala	Asn	Asn	Gly
				85					90					95	
Leu	Lys	Asn	Thr	Arg	Gly	Thr	Leu	Ala	Met	Ala	Arg	Thr	Gln	Ala	Pro
			100					105					110		
His	Ser	Ala	Thr	Ala	Gln	Phe	Phe	Ile	Asn	Val	Ala	Asp	Asn	Asp	Phe
		115					120					125			
Leu	Asn	Phe	Ser	Gly	Glu	Ser	Leu	Gln	Gly	Trp	Gly	Tyr	Cys	Val	Phe
	130					135					140				
Ala	Glu	Val	Val	Glu	Gly	Met	Asp	Val	Val	Asp	Lys	Ile	Lys	Ala	Val
145					150					155					160
Ser	Thr	Gly	Arg	Ser	Gly	Met	His	Gln	Asp	Val	Pro	Lys	Glu	Asp	Val
				165					170					175	
Val	Ile	Thr	Ser	Val	Thr	Val	Ser	Glu							
			180					185							

<210> 7408

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 7408

Phe	Val	Ala	Thr	Leu	Phe	Ile	Ala	Asp	Leu	His	Leu	Gln	Thr	Glu	Glu
1				5					10					15	
Pro	Ala	Ile	Thr	Ala	Gly	Phe	Leu	Arg	Phe	Leu	Arg	Gly	Glu	Ala	Lys
			20					25					30		
Asn	Ala	Asp	Ala	Leu	Tyr	Ile	Leu	Gly	Asp	Leu	Phe	Glu	Ala	Trp	Ile
		35					40					45			
Gly	Asp	Asp	Asp	Pro	Asn	Pro	Leu	His	Arg	Glu	Met	Ala	Ala	Ala	Ile
	50					55					60				
Lys	Thr	Leu	Val	Asp	Ser	Gly	Val	Pro	Cys	Tyr	Phe	Ile	His	Gly	Asn
65					70				75						80
Arg	Asp	Phe	Leu	Ile	Gly	Gln	Arg	Tyr	Ala	Arg	Glu	Ser	Gly	Met	Thr
				85					90					95	
Leu	Leu	Pro	Glu	Glu	Gln	Val	Leu	Asn	Leu	Tyr	Gly	Arg	Asn	Ile	Leu
			100					105					110		
Ile	Met	His	Gly	Asp	Thr	Leu	Cys	Thr	Asp	Asp	Thr	Gly	Tyr	Leu	Ala
		115					120					125			
Phe	Arg	Ala	Lys	Val	His	Thr	Pro	Trp	Ile	Gln	Lys	Val	Phe	Leu	Ala
	130					135					140				
Leu	Pro	Leu	Phe	Ile	Arg	Asn	Arg	Ile	Ala	Ala	Arg	Met	Arg	Ala	Gly
145					150					155					160
Ser	Lys	Ala	Ala	Asn	Ser	Ser	Lys	Ser	Met	Thr	Ile	Met	Asp	Val	Asn
				165					170					175	
Pro	Gln	Ala	Val	Val	Lys	Val	Met	Glu	Lys	His	Arg	Val	Gln	Trp	Leu
			180					185					190		
Ile	His	Gly	His	Thr	His	Arg	Pro	Asp	Val	His	Ser	Leu	Ile	Ala	Asn
		195					200					205			
Gly	Glu	Pro	Ala	His	Arg	Val	Val	Leu	Gly	Ala	Trp	His	Ser	Glu	Gly
	210						215					220			

Ser Met Val Lys Val Thr Pro Glu Gly Val Glu Leu Ile Ala Phe Pro
 225 230 235 240
 Phe

<210> 7409

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7409

Pro Gly Ser Ala Gly Cys Ser Met Lys Gln Val Cys Val Leu Gly Asn
 1 5 10 15
 Gly Gln Leu Gly Arg Met Leu Arg Gln Ala Gly Glu Pro Leu Gly Ile
 20 25 30
 Ala Val Trp Pro Val Gly Leu Asp Ala Glu Pro Glu Ala Val Pro Phe
 35 40 45
 His Gln Ser Val Ile Thr Ala Glu Ile Glu Arg Trp Pro Glu Thr Ala
 50 55 60
 Leu Thr Arg Glu Leu Ala Arg His Asn Ala Phe Val Asn Arg Asp Val
 65 70 75 80
 Phe Pro Ile Ile Ala Asp Arg Leu Thr Gln Lys Gln Leu Phe Asp Lys
 85 90 95
 Leu Gly Leu Ala Thr Ala Pro Trp Gln Leu Leu Ser Asp Lys Arg Glu
 100 105 110
 Trp Asp Asp Val Phe Ala Met Leu Gly Asp Leu Ala Ile Val Lys Arg
 115 120 125
 Arg Val Gly Gly Tyr Asp Gly Arg Gly Gln Trp Arg Leu Arg Ala Asn
 130 135 140
 Asp Thr Ala Glu Leu Pro Asp Asp Cys Tyr Gly Glu Cys Ile Val Glu
 145 150 155 160
 Gln Gly Ile Asn Phe Ser Gly Glu Val Ser Leu Val Gly Ala Arg Gly
 165 170 175
 His Asp Gly His Thr Val Phe Tyr Pro Leu Thr His Asn Leu His Gln
 180 185 190
 Asp Gly Ile Leu Arg Thr Ser Val Ala Phe Pro Gln Ala Asn Ala Asp
 195 200 205
 Gln Gln Ala Gln Ala Glu Glu Met Leu Ser Ala Ile Met His Glu Leu
 210 215 220
 Gly Tyr Val Gly Val Met Ala Met Glu Cys Phe Val Thr Pro Ser Gly
 225 230 235 240
 Leu Leu Ile Asn Glu Leu Ala Pro Arg Val His Asn Ser Gly His Trp
 245 250 255
 Thr Gln Asn Gly Ala Ser Ile Ser Gln Phe Glu Leu His Leu Arg Ala
 260 265 270
 Ile Thr Asp Leu Pro Leu Pro Gln Pro Val Val Thr Ser Pro Ser Val
 275 280 285
 Met Ile Asn Leu Ile Gly Thr Asp Leu Asn Tyr Asn Trp Leu Lys Leu
 290 295 300
 Pro Leu Val His Leu His Trp Tyr Asp Lys Glu Val Arg Pro Gly Arg
 305 310 315 320
 Lys Val Gly His Leu Asn Leu Asn Asp Thr Asp Thr Asp Arg Leu Ser
 325 330 335
 Ala Thr Leu Glu Ala Ile Val Pro Leu Leu Pro Pro Glu Tyr Ala Ser
 340 345 350
 Gly Ile Val Trp Ala Gln Ser Lys Leu Lys
 355 360

<210> 7410

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7410

Val Ser Pro Ala Gly Glu Leu Thr Phe Pro Phe Pro Gly Val Gln Phe
 1 5 10 15
 Pro Pro Ile Ala Ala Gln Phe Ser Ser Gly Ile Thr Met Asn Asp Gly
 20 25 30
 Thr Asp Tyr Arg Ala Ile Leu Ala Ser Asp Thr Pro Leu Ile Asp Val
 35 40 45
 Arg Ala Pro Ile Glu Phe Ala Gln Gly Ala Met Pro Ala Ala Leu Asn
 50 55 60
 Leu Pro Leu Met Asn Asp Glu Arg Ala Ala Val Gly Thr Cys Tyr
 65 70 75 80
 Lys Arg Gln Gly Pro Asp Ala Ala Leu Ala Leu Gly His Ser Leu Val
 85 90 95
 Asn Gly Glu Thr Arg Glu Ala Arg Ile Asn Ala Trp Arg Glu Ala Ser
 100 105 110
 Leu Ala His Pro Glu Gly Tyr Leu Cys Cys Ala Arg Gly Gly Gln Arg
 115 120 125
 Ser His Ile Ser Gln Ala Trp Leu Lys Glu Ala Gly Ile Asp Tyr Pro
 130 135 140
 Leu Ile Arg Gly Gly Tyr Lys Ala Leu Arg Gln Thr Ala Ile Gln Val
 145 150 155 160
 Thr Ile Glu Gln Ser Gln Lys Pro Met Val Leu Ile Gly Gly Cys Thr
 165 170 175
 Gly Asn Gly Lys Thr Leu Leu Val Lys Gln His Ala Gln Gly Ile Asp
 180 185 190
 Leu Glu Gly Leu Ala His His Arg Gly Ser Ser Phe Gly Arg Thr Leu
 195 200 205
 Thr Pro Gln Leu Ser Gln Ala Ser Phe Glu Asn His Leu Ala Val Glu
 210 215 220
 Leu Leu Lys Lys Asp Ala Ala Arg Trp Val Leu Glu Asp Glu Gly Arg
 225 230 235 240
 Met Ile Gly Ser Asn His Leu Pro Glu Cys Leu Arg Asp Arg Met Val
 245 250 255
 Asp Ala Pro Val Val Val Val Glu Asp Pro Phe Glu Val Arg Leu Glu
 260 265 270
 Arg Leu Arg Glu Glu Tyr Phe Asp His Met Trp Ala Asp Phe Ser Ala
 275 280 285
 Ala Tyr Gly Glu Lys Ala Gly Trp Lys Ala Tyr Ser Glu Tyr Leu His
 290 295 300
 His Gly Leu Tyr Ala Ile Arg Arg Arg Leu Gly Leu Gln Arg Phe Ala
 305 310 315 320
 Glu Phe Thr Ala Leu Leu Asp Ala Ala Leu Val Glu Gln Gln Arg Thr
 325 330 335
 Gly Ser Thr Asp Ala His Phe Ser Trp Leu Val Pro Leu Leu Lys Asp
 340 345 350
 Tyr Tyr Asp Pro Met Tyr Gly Tyr Gln Leu Glu Lys Lys Ala Glu Lys
 355 360 365
 Ile Val Tyr Arg Gly Thr Tyr Glu Glu Ile Ala Glu Trp Leu Asp Arg
 370 375 380

385

<210> 7411

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7411

Leu Lys Asp Lys Pro Asp Met Pro Gly Ser Gln Arg Gly Ala Gly Leu

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<210> 7412
<211> 210
<212> PRT
<213> Enterobacter cloacae
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Arg	His	Gln	Thr	Gly	Arg	His	Ala	Ala	Gln	Val	Ala	Gly	Arg	Asp	Pro
1				5					10					15	
Ser	Ala	Ser	Ala	Gly	Leu	Val	Ser	Arg	Gly	Leu	Thr	Gly	Ala	Gly	Ala
			20					25					30		
Gly	Gln	His	Leu	Pro	Val	Val	Pro	Gly	Lys	Pro	Ala	Pro	Leu	Pro	Gly
		35					40					45			
Val	Met	Met	Phe	Leu	Ser	Gln	Glu	Asp	Phe	Ala	Thr	Val	Val	Arg	Ser
	50					55					60				
Thr	Pro	Leu	Ile	Ser	Ile	Asp	Leu	Ile	Val	Glu	Asn	Glu	Arg	Gly	Glu
65					70					75					80
Phe	Leu	Leu	Gly	Lys	Arg	Thr	Asn	Arg	Pro	Ala	Gln	Gly	Phe	Trp	Phe
			85					90					95		
Val	Pro	Gly	Gly	Arg	Val	Gln	Lys	Asp	Glu	Thr	Leu	Thr	Asp	Ala	Phe
			100					105					110		
Glu	Arg	Leu	Thr	Leu	Ala	Glu	Leu	Gly	Leu	Gln	Leu	Pro	Met	Ala	Ala
		115					120					125			
Gly	Gln	Phe	Tyr	Gly	Val	Trp	Gln	His	Phe	Tyr	Asp	Asp	Asn	Phe	Ser

130		135		140
Gly Thr Gly Phe Thr Thr His Tyr Val Val Leu Gly Phe Arg Leu Lys				
145		150		155
Val Ser Glu Ala Asp Leu Arg Leu Pro Asp Ser Gln His Asp Asp Tyr				160
		165		170
Arg Trp Leu Thr Pro Glu Ala Leu Leu Ala Ser Asp Asn Val His Asp				175
		180		185
Asn Ser Arg Ala Tyr Phe Leu Ala Glu Arg Gln Ala Glu Val Pro Gly				190
		195		200
				205
Leu				
210				

<210> 7413

<211> 474

<212> PRT

<213> Enterobacter cloacae

<400> 7413

Ile Trp Pro Leu His Gly Gln Gly Gln Leu Leu Pro Glu Lys Gly Val				
1		5		10
Ile Met Glu Lys Leu Thr Cys Phe Lys Ala Tyr Asp Ile Arg Gly Lys				15
		20		25
Leu Gly Glu Glu Leu Asn Glu Asp Ile Ala Trp Arg Ile Gly Arg Ala				30
		35		40
Tyr Gly Glu Tyr Leu Lys Pro Gln Thr Ile Val Leu Gly Gly Asp Val				45
		50		55
Arg Leu Thr Ser Glu Ser Leu Lys Leu Ala Leu Ala Lys Gly Leu Gln				60
		65		70
Asp Ala Gly Val Asp Val Leu Asp Ile Gly Leu Ser Gly Thr Glu Glu				75
		85		90
Ile Tyr Phe Ala Thr Phe His Leu Gly Val Asp Gly Gly Ile Glu Val				95
		100		105
Thr Ala Ser His Asn Pro Met Asp Tyr Asn Gly Met Lys Leu Val Arg				110
		115		120
Lys Gly Ala Arg Pro Ile Ser Gly Asp Thr Gly Leu Arg Asp Val Gln				125
		130		135
Arg Leu Ala Glu Ala Asn Asp Phe Pro Pro Val Asn Glu Ala Lys Arg				140
		145		150
Gly Ser Tyr Lys Gln Ile Asn Leu Gln Lys Glu Tyr Ile Asp His Leu				155
		165		170
Leu Gly Tyr Ile Asn Val Ala Asn Leu Lys Pro Leu Lys Leu Val Ile				175
		180		185
Asn Ser Gly Asn Gly Ala Ala Gly Pro Val Val Asp Ala Leu Glu Ala				190
		195		200
Arg Phe Lys Ala Leu Asn Val Pro Val Thr Phe Val Lys Val His Asn				205
		210		215
Thr Pro Asp Gly Asn Phe Pro Asn Gly Ile Pro Asn Pro Leu Leu Pro				220
		225		230
Glu Cys Arg Asp Asp Thr Arg Asn Ala Val Ile Glu His Gly Ala Asp				235
		245		250
Met Gly Ile Ala Phe Asp Gly Asp Phe Asp Arg Cys Phe Leu Phe Asp				255
		260		265
Glu Lys Gly Gln Phe Ile Glu Gly Tyr Tyr Ile Val Gly Leu Leu Ala				270
		275		280
Glu Ala Phe Leu Glu Lys Asn Pro Gly Ala Lys Ile Ile His Asp Pro				285
		290		295
Arg Leu Ser Trp Asn Thr Val Asp Val Val Lys Ala Ala Gly Gly Glu				300
		305		310
Pro Val Met Ser Lys Thr Gly His Ala Phe Ile Lys Glu Arg Met Arg				315
		325		330
Glu Glu Asp Ala Ile Tyr Gly Gly Glu Met Ser Ala His His Tyr Phe				335

[illegible]

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<210> 7414
<211> 499
<212> PRT
<213> Enterobacter cloacae
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<400>	7414															
Thr	Lys	Arg	Arg	Thr	Lys	Met	Ser	Leu	Arg	Glu	Lys	Thr	Ile	Ser	Gly	
1				5					10					15		
Ala	Lys	Trp	Ser	Ala	Met	Ala	Thr	Ile	Val	Ile	Ile	Gly	Leu	Gly	Leu	
			20					25					30			
Val	Gln	Met	Thr	Val	Leu	Ala	Arg	Ile	Ile	Asp	Asn	His	Gln	Phe	Gly	
			35				40					45				
Leu	Leu	Thr	Val	Ser	Leu	Val	Ile	Ile	Ala	Leu	Ala	Asp	Thr	Leu	Ser	
			50			55					60					
Asp	Phe	Gly	Ile	Ala	Asn	Ser	Ile	Ile	Gln	Arg	Lys	Glu	Ile	Ser	His	
65					70				75						80	
Leu	Glu	Leu	Thr	Thr	Leu	Tyr	Trp	Leu	Asn	Val	Gly	Leu	Gly	Ile	Phe	
				85					90					95		
Val	Phe	Val	Leu	Val	Phe	Leu	Leu	Ser	Asp	Val	Ile	Ala	Gly	Val	Leu	
			100					105					110			
His	Asn	Pro	Asp	Leu	Ala	Pro	Leu	Met	Arg	Thr	Leu	Ser	Phe	Ala	Phe	
			115				120					125				
Val	Val	Ile	Pro	His	Gly	Gln	Gln	Phe	Arg	Ala	Leu	Met	Gln	Lys	Glu	
	130					135					140					
Leu	Glu	Phe	Asn	Lys	Ile	Gly	Met	Ile	Glu	Thr	Ser	Ala	Val	Leu	Ala	
145					150					155					160	
Gly	Phe	Thr	Phe	Thr	Val	Val	Ser	Ala	His	Phe	Trp	Pro	Leu	Ala	Met	
				165					170					175		
Thr	Ala	Ile	Leu	Gly	Tyr	Leu	Val	Asn	Ser	Ala	Val	Arg	Thr	Leu	Leu	
			180					185					190			
Phe	Gly	Phe	Phe	Gly	Arg	Lys	Ile	Tyr	Arg	Pro	Gly	Leu	His	Phe	Ser	
			195				200					205				
Leu	Ala	Ser	Val	Ser	Ser	Asn	Leu	Arg	Phe	Gly	Ala	Trp	Leu	Thr	Ala	
	210					215				220						
Asp	Ser	Ile	Ile	Asn	Tyr	Val	Asn	Thr	Asn	Leu	Ser	Thr	Leu	Val	Leu	
225					230					235					240	
Ala	Arg	Ile	Leu	Gly	Ala	Ser	Val	Ala	Gly	Gly	Tyr	Asn	Leu	Ala	Tyr	
				245					250					255		
Asn	Val	Ala	Val	Val	Pro	Pro	Met	Lys	Leu	Asn	Pro	Ile	Ile	Thr	Arg	
			260					265					270			
Val	Leu	Phe	Pro	Ala	Phe	Ala	Lys	Ile	Gln	Asp	Asp	Thr	Glu	Lys	Leu	
			275				280					285				
Arg	Val	Asn	Phe	Tyr	Lys	Leu	Leu	Ser	Val	Val	Gly	Ile	Ile	Asn	Phe	

290	295	300
Pro Val Leu Leu Gly	Leu Met Val Val Ala Ser Asn Phe Val Pro Leu	
305	310	315
Val Phe Gly Glu Lys	Trp Asn Ser Ile Ile Ile Leu Gln Leu Leu	
	325	330
Cys Val Val Gly Leu Leu Arg Ser Val Gly Asn Pro Ile Gly Ser Leu		335
	340	345
Leu Met Ala Lys Ala Arg Val Asp Ile Ser Phe Lys Phe Asn Val Phe		350
	355	360
Lys Thr Phe Leu Phe Ile Pro Ala Ile Ile Val Gly Gly His Met Ala		365
	370	375
Gly Ala Ile Gly Val Thr Leu Gly Phe Leu Leu Val Gln Ile Val Asn		380
385	390	395
Thr Val Leu Ser Tyr Phe Val Met Ile Lys Pro Val Leu Gly Ser Ser		400
	405	410
Tyr Arg Gln Tyr Ile Leu Ser Leu Trp Leu Pro Phe Tyr Leu Ser Leu		415
	420	425
Pro Thr Leu Ala Val Ser Tyr Gly Leu Gly Val Val Leu Asn Gly His		430
	435	440
Leu Pro Leu Ala Ala Leu Leu Ala Val Gln Val Ala Ala Gly Ala Leu		445
	450	455
Ala Phe Gly Val Met Ile Val Leu Ser Arg Asn Ala Leu Val Val Glu		460
465	470	475
Met Lys Arg Gln Phe Cys Arg Asn Glu Lys Met Lys Thr Leu Leu Arg		480
	485	490
		495
Ala Gly		

<210> 7415

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 7415

Phe Tyr Glu Ala Ile Met Lys Leu Leu Ile Leu Gly Asn His Thr Cys	
1	5
Gly Asn Arg Gly Asp Ser Ala Ile Leu Arg Gly Leu Leu Asp Ala Ile	
	20
Asn Thr Leu Lys Pro Glu Thr Glu Val Asp Val Met Ser Arg Tyr Pro	
	35
Val Ser Ser Ser Trp Leu Leu Asn Arg Pro Val Met Gly Asp Pro Leu	
	50
Tyr Ser Gln Met Lys Gln His Asn Asn Ala Ala Gly Val Met Gly Arg	
65	70
Val Lys Lys Val Leu Arg Arg Arg Tyr Gln His Gln Val Leu Leu Ser	
	85
Arg Val Thr Asp Thr Gly Lys Leu Arg Asn Ile Ala Ile Ala Gln Gly	
	100
Phe Thr Asp Phe Val Arg Leu Leu Ser Gly Tyr Asp Ala Ile Ile Gln	
	115
Val Gly Gly Ser Phe Phe Val Asp Leu Tyr Gly Val Pro Gln Phe Glu	
	130
His Ala Leu Cys Thr Phe Met Ala Lys Lys Pro Leu Phe Met Ile Gly	
145	150
His Ser Val Gly Pro Phe Gln Asp Pro Gln Phe Asn Gln Leu Ala Asn	
	165
Tyr Val Phe Gly His Cys Asp Ala Leu Ile Leu Arg Glu Ser Val Ser	
	180
Leu Asp Met Met Lys Arg Ser Glu Ile Asp Thr Thr Lys Val Glu His	
	195
Gly Val Asp Thr Ala Trp Leu Val Asp His Gln Asp Asp Ser Phe Gln	
	200
	205

210	215	220
Ala Ser Tyr Ala Val Gln His Trp Leu Asp Val Ala Ala Lys Gln Lys		
225	230	235
Thr Val Ala Ile Thr Leu Arg Glu Leu Ala Pro Phe Asp Lys Arg Leu		
	245	250
Gly Thr Thr Gln Ala Ala Tyr Glu Lys Ala Phe Ala Asp Val Val Asn		
	260	265
Arg Val Leu Asp Ser Gly Tyr Gln Val Leu Ala Leu Ser Thr Cys Thr		
	275	280
Gly Ile Asp Ser Tyr Asn Lys Asp Asp Arg Met Val Ala Leu Asn Leu		
	290	295
Arg Asn Leu Val Asn Asp Pro Ser Arg Tyr His Val Val Met Asp Glu		
305	310	315
Leu Asn Asp Leu Glu Met Gly Lys Leu Leu Ser Ala Cys Asp Leu Thr		
	325	330
Val Gly Thr Arg Leu His Ser Ala Ile Ile Ser Met Asn Phe Gly Thr		
	340	345
Pro Ala Ile Ala Ile Asn Tyr Glu His Lys Ser Ala Gly Ile Met Gln		
	355	360
Gln Leu Gly Met Pro Glu Met Ala Val Asp Ile Arg His Leu Leu Asp		
370	375	380
Gly Ser Leu Gly Ala Met Val Gly Asp Thr Leu Gly Gln Leu Pro Ala		
385	390	395
Ile Asn Glu Arg Leu Ala Val Ala Val Lys Ala Glu Arg Glu Lys Gly		
	405	410
Ile Gly Met Val Lys Ser Val Leu Asp Arg Val Arg Glu Gly Lys		
	420	425
		430

<210> 7416

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7416

Ser Ser Glu Lys Thr Leu Pro Ala Gln Val Ser Trp Leu Arg Gly Cys	
1	5
His Arg Ala Gly Val Leu Arg Met Thr Lys Gln Arg Ile Phe Val Ala	
	20
Gly His Arg Gly Met Val Gly Ser Ala Ile Val Arg Gln Leu Glu Gln	
	35
Arg Gly Asp Val Glu Val Ile Val Arg Thr Arg Asp Glu Leu Asn Leu	
	50
Leu Asp Ser Lys Ala Val Gln Asp Phe Phe Ala Ser Glu Arg Ile Asp	
65	70
Gln Val Tyr Leu Ala Ala Ala Lys Val Gly Gly Ile Val Ala Asn Asn	
	85
Thr Tyr Pro Ala Asp Phe Ile Tyr Glu Asn Met Met Ile Glu Ser Asn	
	100
Ile Ile His Ala Ala His Met His Asn Val Asn Lys Leu Leu Phe Leu	
	115
Gly Ser Ser Cys Ile Tyr Pro Lys Met Ala Lys Gln Pro Ile Ala Glu	
	130
Ser Glu Leu Leu Gln Gly Thr Leu Glu Ala Thr Asn Glu Pro Tyr Ala	
145	150
Ile Ala Lys Ile Ala Gly Ile Lys Leu Cys Glu Ser Tyr Asn Arg Gln	
	165
Tyr Asn Arg Asp Tyr Arg Ser Val Met Pro Thr Asn Leu Tyr Gly Pro	
	180
His Asp Asn Phe His Pro Ser Asn Ser His Val Ile Pro Ala Leu Leu	
	195
Arg Arg Phe His Glu Ala Thr Ala Glu Asn Ala Pro Asp Val Val Val	
	200
	205

210	215	220
Trp Gly Ser Gly Thr Pro Met Arg Glu Phe Leu His Val Asp Asp Met		
225	230	235
Ala Ala Ala Ser Ile His Val Met Glu Leu Asp Arg Glu Val Trp Gln		240
	245	250
Glu Asn Thr Glu Pro Met Leu Ser His Ile Asn Val Gly Thr Gly Val		255
	260	265
Asp Cys Thr Ile Arg Glu Leu Ala Gln Thr Ile Ala Gln Val Val Gly		270
	275	280
Tyr Lys Gly Arg Val Val Phe Asp Ala Thr Lys Pro Asp Gly Thr Pro		285
	290	295
Arg Lys Leu Leu Asp Val Thr Arg Leu His Gln Leu Gly Trp Tyr His		300
305	310	315
Glu Val Ser Leu Glu Gln Gly Leu Ala Ser Thr Tyr Gln Trp Phe Leu		320
	325	330
Glu Asn Gln His Arg Phe Arg Gly		335
	340	345

<210> 7417

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7417

Leu Gly Leu Tyr Phe Val Asn His Phe Lys Val Glu Asp Lys Met Thr	
1	5
Asn Leu Lys Ala Val Ile Pro Val Ala Gly Leu Gly Met His Met Leu	
	20
Pro Ala Thr Lys Ala Ile Pro Lys Glu Met Leu Pro Ile Val Asp Lys	
	35
Pro Met Ile Gln Tyr Ile Val Asp Glu Ile Val Ala Ala Gly Ile Lys	
	50
Glu Ile Val Leu Val Thr His Ser Ser Lys Asn Ala Val Glu Asn His	
65	70
Phe Asp Thr Ser Tyr Glu Leu Glu Ala Leu Leu Glu Gln Arg Val Lys	
	85
Arg Gln Leu Leu Ala Glu Val Gln Ser Ile Cys Pro Pro Gly Val Thr	
	100
Ile Met Asn Val Arg Gln Ala Gln Pro Leu Gly Leu Gly His Ser Ile	
	115
Leu Cys Ala Arg Pro Val Val Gly Asp Asn Pro Phe Ile Val Val Leu	
	130
Pro Asp Ile Ile Ile Asp Asn Ala Ser Ala Asp Pro Leu Arg Tyr Asn	
145	150
Leu Ala Ala Met Val Ala Arg Phe Asn Glu Thr Gly Arg Ser Gln Val	
	165
Leu Ala Lys Arg Met Lys Gly Asp Leu Ser Glu Tyr Ser Val Ile Gln	
	180
Thr Lys Glu Pro Leu Glu Thr Glu Gly Gln Val Ser Arg Ile Val Glu	
	195
Phe Ile Glu Lys Pro Asp Gln Pro Gln Thr Leu Asp Ser Asp Leu Met	
	210
Ala Val Gly Arg Tyr Val Leu Asn Ala Asp Ile Trp Ala Glu Leu Glu	
225	230
Lys Thr Lys Pro Gly Ala Trp Glu Arg Ile Gln Leu Thr Asp Ala Ile	
	245
Ala Glu Leu Gly Lys Lys Gln Ser Val Asp Ala Met Leu Met Thr Gly	
	260
Asp Ser Tyr Asp Cys Gly Lys Lys Met Gly Tyr Met Gln Ala Phe Val	
	275
Asn Thr Gly Leu Arg Asn Leu Lys Glu Gly Ala Lys Phe Arg Lys Cys	

290 295 300
 Ile Glu Asn Leu Leu His Glu
 305 310

<210> 7418
 <211> 378
 <212> PRT
 <213> Enterobacter cloacae

<400> 7418

Arg	Asn	Ile	Asn	Met	Ser	Lys	Val	Ala	Leu	Ile	Thr	Gly	Val	Thr	Gly
1			5						10					15	
Gln	Asp	Gly	Ser	Tyr	Leu	Ala	Glu	Leu	Leu	Glu	Lys	Gly	Tyr	Glu	
			20					25					30		
Val	His	Gly	Ile	Lys	Arg	Arg	Ala	Ser	Ser	Phe	Asn	Thr	Glu	Arg	Val
		35					40					45			
Asp	His	Ile	Tyr	Gln	Asp	Pro	His	Ala	Ala	Asn	Pro	Lys	Phe	His	Leu
	50					55					60				
His	Tyr	Gly	Asp	Leu	Thr	Asp	Thr	Ser	Asn	Leu	Thr	Arg	Ile	Leu	Gln
65					70					75					80
Glu	Val	Gln	Pro	Asp	Glu	Val	Tyr	Asn	Leu	Gly	Ala	Met	Ser	His	Val
				85					90					95	
Ala	Val	Ser	Phe	Glu	Ser	Pro	Glu	Tyr	Thr	Ala	Asp	Val	Asp	Ala	Met
			100					105					110		
Gly	Thr	Leu	Arg	Leu	Leu	Glu	Ala	Ile	Arg	Phe	Leu	Gly	Leu	Glu	Lys
		115					120					125			
Lys	Thr	Arg	Phe	Tyr	Gln	Ala	Ser	Thr	Ser	Glu	Leu	Tyr	Gly	Leu	Val
	130					135					140				
Gln	Glu	Ile	Pro	Gln	Lys	Glu	Thr	Thr	Pro	Phe	Tyr	Pro	Arg	Ser	Pro
145					150					155					160
Tyr	Ala	Val	Ala	Lys	Leu	Tyr	Ala	Tyr	Trp	Ile	Thr	Val	Asn	Tyr	Arg
				165					170					175	
Glu	Ser	Tyr	Gly	Met	Tyr	Ala	Cys	Asn	Gly	Ile	Leu	Phe	Asn	His	Glu
			180					185					190		
Ser	Pro	Arg	Arg	Gly	Glu	Thr	Phe	Val	Thr	Arg	Lys	Ile	Thr	Arg	Ala
		195					200					205			
Ile	Ala	Asn	Ile	Ala	Gln	Gly	Leu	Glu	Ser	Cys	Leu	His	Leu	Gly	Asn
	210				215						220				
Met	Asp	Ser	Leu	Arg	Asp	Trp	Gly	His	Ala	Lys	Asp	Tyr	Val	Lys	Met
225					230					235					240
Gln	Trp	Met	Met	Leu	Gln	Gln	Glu	Gln	Pro	Glu	Asp	Phe	Val	Ile	Ala
				245					250					255	
Thr	Gly	Val	Gln	Tyr	Ser	Val	Arg	Gln	Phe	Val	Glu	Met	Ala	Ala	Ala
			260					265					270		
Gln	Leu	Gly	Ile	Lys	Leu	Arg	Phe	Glu	Gly	Thr	Gly	Val	Glu	Glu	Lys
		275					280					285			
Gly	Ile	Val	Val	Ser	Val	Thr	Gly	His	Asp	Ala	Pro	Gly	Val	Lys	Pro
	290					295					300				
Gly	Asp	Val	Ile	Val	Gln	Val	Asp	Pro	Arg	Tyr	Phe	Arg	Pro	Ala	Glu
305					310					315					320
Val	Glu	Thr	Leu	Leu	Gly	Asp	Pro	Thr	Lys	Ala	His	Glu	Lys	Leu	Gly
				325					330					335	
Trp	Lys	Pro	Glu	Thr	Thr	Leu	Gln	Glu	Met	Val	Ser	Glu	Met	Val	Ala
			340					345					350		
Lys	Asp	Leu	Glu	Ala	Ala	Lys	Lys	His	Ser	Leu	Leu	Lys	Ser	His	Gly
		355					360					365			
Tyr	Glu	Val	Ala	Ile	Ala	Leu	Glu	Ser							
	370					375									

<210> 7419
 <211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7419

Gln Gln Ser Gly Val Leu Pro Cys Gly Thr Ser Gly Arg Gly Ala Arg
 1 5 10 15
 Ser Met Lys Ile Leu Val Tyr Gly Ile Asn Tyr Ser Pro Glu Leu Thr
 20 25 30
 Gly Ile Gly Lys Tyr Thr Gly Glu Met Val Glu Trp Met Ala Ser Gln
 35 40 45
 Gly His Asp Val Arg Val Ile Thr Ala Pro Pro Tyr Tyr Pro Glu Trp
 50 55 60
 Lys Val Gly Glu Arg Tyr Ser Ser Trp Arg Tyr Arg Arg Glu Glu Gly
 65 70 75 80
 Ala Ala Thr Val Trp Arg Cys Pro Leu Tyr Val Pro Lys Gln Pro Ser
 85 90 95
 Thr Leu Lys Arg Leu Ile His Leu Gly Ser Phe Ala Leu Ser Ser Phe
 100 105 110
 Phe Pro Leu Met Ala Gln Arg Arg Trp Lys Pro Asp Arg Ile Ile Gly
 115 120 125
 Val Val Pro Thr Leu Phe Cys Thr Pro Gly Met Arg Leu Leu Gly Lys
 130 135 140
 Leu Ser Gly Ala Arg Thr Leu Leu His Ile Gln Asp Tyr Glu Val Asp
 145 150 155 160
 Ala Met Leu Gly Leu Gly Met Ala Gly Lys Gly Lys Gly Lys Val
 165 170 175
 Ala Lys Leu Ala Ser Ala Phe Glu Arg Ser Gly Leu His Asn Val Asp
 180 185 190
 Tyr Val Ser Thr Ile Ser Arg Ser Met Met Asn Lys Ala Gln Glu Lys
 195 200 205
 Gly Val Pro Ala Glu Lys Val Ile Phe Phe Pro Asn Trp Ser Glu Val
 210 215 220
 Ala Arg Phe Arg Asp Val Thr Asp Gln Asp Ala Gln Ala Leu Arg Ala
 225 230 235 240
 Gln Leu Gly Leu Pro Ala Glu Gln Lys Ile Ile Leu Tyr Ser Gly Asn
 245 250 255
 Ile Gly Glu Lys Gln Gly Leu Glu Ser Val Ile Asp Ala Ala Leu Gln
 260 265 270
 Leu Ser Glu His Pro Trp Met Phe Val Ile Val Gly Gln Gly Gly Gly
 275 280 285
 Lys Ala Arg Leu Glu Lys Met Ala Ser Glu Arg Gly Leu Thr Asn Ile
 290 295 300
 Arg Phe Phe Pro Leu Gln Ser Tyr Asp Ala Leu Pro Ala Leu Leu Lys
 305 310 315 320
 Met Ala Asp Cys His Leu Val Val Gln Lys Arg Gly Ala Ala Asp Ala
 325 330 335
 Val Leu Pro Ser Lys Leu Thr Asn Ile Leu Ala Val Gly Gly Asn Ala
 340 345 350
 Val Ile Thr Ala Glu Ala Ala Thr Glu Leu Gly Gln Leu Cys Asn Ser
 355 360 365
 Tyr Pro Gly Ile Ala Val Cys Val Glu Pro Glu Ser Val Pro Ala Leu
 370 375 380
 Val Thr Gly Ile Glu Gln Ala Leu Ala Met Pro Lys Glu Asn Thr Val
 385 390 395 400
 Ala Arg Glu Tyr Ala Glu Arg Thr Leu Glu Lys Glu Asn Val Leu Ser
 405 410 415
 Gln Phe Ile Ala Asp Ile Arg Gly
 420 425

<210> 7420

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 7420

Ile	Met	Ser	Gln	Thr	Thr	Leu	Tyr	Pro	Val	Val	Met	Ala	Gly	Gly	Ser
1				5					10					15	
Gly	Ser	Arg	Leu	Trp	Pro	Leu	Ser	Arg	Val	Leu	Tyr	Pro	Lys	Gln	Phe
			20					25					30		
Leu	Cys	Leu	Lys	Gly	Asp	Leu	Thr	Met	Leu	Gln	Thr	Thr	Val	Asn	Arg
			35				40					45			
Leu	His	Gly	Val	Glu	Cys	Glu	Ser	Pro	Val	Val	Ile	Cys	Asn	Glu	Gln
			50			55					60				
His	Arg	Phe	Ile	Val	Ala	Glu	Gln	Leu	Arg	Gln	Leu	Asn	Lys	Leu	Thr
65				70						75					80
Glu	Asn	Ile	Ile	Leu	Glu	Pro	Ala	Gly	Arg	Asn	Thr	Ala	Pro	Ala	Ile
				85				90						95	
Ala	Leu	Ala	Ala	Leu	Ala	Ala	Lys	Arg	Ser	Ser	Pro	Asp	Cys	Asp	Pro
			100					105					110		
Leu	Met	Leu	Val	Leu	Ala	Ala	Asp	His	Val	Ile	Gln	Gln	Glu	Glu	Ala
			115				120					125			
Phe	Arg	Asp	Ala	Val	Arg	Ala	Ala	Ile	Pro	Tyr	Ala	Glu	Asn	Gly	Lys
			130				135					140			
Leu	Val	Thr	Phe	Gly	Ile	Val	Pro	Asp	Leu	Pro	Glu	Thr	Gly	Tyr	Gly
145				150						155					160
Tyr	Ile	Arg	Arg	Gly	Ser	Val	Thr	Pro	Gly	Glu	Gly	Asp	Ser	Val	Ala
				165					170					175	
Phe	Asp	Val	Ala	Gln	Phe	Val	Glu	Lys	Pro	Asn	Leu	Glu	Thr	Ala	Gln
			180					185					190		
Ala	Tyr	Val	Ala	Ser	Gly	Glu	Tyr	Tyr	Trp	Asn	Ser	Gly	Met	Phe	Leu
		195					200					205			
Phe	Arg	Ala	Gly	Arg	Tyr	Leu	Glu	Glu	Leu	Glu	Lys	Tyr	Arg	Pro	Asp
		210				215					220				
Ile	Leu	Ser	Ala	Cys	Glu	Lys	Ala	Met	Ala	Val	Val	Asp	Pro	Asp	Leu
225				230						235					240
Asp	Phe	Ile	Arg	Val	Asp	Glu	Glu	Ala	Phe	Leu	Ala	Cys	Pro	Glu	Glu
				245					250					255	
Ser	Ile	Asp	Tyr	Ala	Val	Met	Glu	Arg	Thr	Ala	Asp	Ala	Val	Val	Val
			260					265					270		
Pro	Met	Asp	Ala	Gly	Trp	Ser	Asp	Val	Gly	Ser	Trp	Ser	Ser	Leu	Trp
		275					280					285			
Glu	Ile	Ser	Ala	His	Thr	Pro	Glu	Gly	Asn	Val	His	His	Gly	Asp	Val
			290			295					300				
Ile	Ser	His	Lys	Thr	Glu	Asn	Ser	Tyr	Val	Tyr	Ala	Glu	Ser	Gly	Leu
305				310						315					320
Val	Thr	Thr	Val	Gly	Val	Lys	Asp	Leu	Val	Val	Val	Gln	Thr	Lys	Asp
				325					330					335	
Ala	Val	Leu	Ile	Ala	Asp	Arg	Asn	Ala	Val	Gln	Asp	Val	Lys	Lys	Val
			340					345					350		
Val	Glu	Lys	Ile	Lys	Ala	Asp	Gly	Arg	His	Glu	His	His	Ile	His	Arg
		355					360				365				
Glu	Val	Tyr	Arg	Pro	Trp	Gly	Lys	Tyr	Asp	Ser	Ile	Asp	Ala	Gly	Glu
		370				375					380				
Arg	Tyr	Gln	Val	Lys	Arg	Ile	Thr	Val	Lys	Pro	Gly	Glu	Gly	Leu	Ser
385				390						395					400
Val	Gln	Met	His	His	His	Arg	Ala	Glu	His	Trp	Val	Val	Val	Ala	Gly
				405					410					415	
Thr	Ala	Lys	Val	Thr	Ile	Asp	Gly	Glu	Val	Lys	Leu	Leu	Gly	Glu	Asn
			420					425					430		
Glu	Ser	Ile	Tyr	Ile	Pro	Leu	Gly	Ala	Thr	His	Cys	Leu	Glu	Asn	Pro
		435					440					445			
Gly	Lys	Ile	Pro	Leu	Asp	Leu	Ile	Glu	Val	Arg	Ser	Gly	Ser	Tyr	Leu

450 455 460
 Glu Glu Asp Asp Ile Ile Arg Phe Gln Asp Arg Tyr Gly Arg Val
 465 470 475 480

<210> 7421

<211> 489

<212> PRT

<213> Enterobacter cloacae

<400> 7421

Thr Pro Ser Pro Leu Trp Gly Glu Gly Arg Gly Glu Gly Arg Gly Val
 1 5 10 15
 Arg Phe Arg Thr Lys Gly Thr Thr Met Thr Asn Leu Lys Lys Arg Glu
 20 25 30
 Arg Ala Arg Thr Asn Ala Ser Leu Ile Ser Met Val Gln Arg Phe Ser
 35 40 45
 Asp Ile Thr Ile Met Val Gly Gly Leu Trp Ala Val Cys Trp Val Ser
 50 55 60
 Gly Gln Ser Phe Leu Tyr Met His Leu Leu Met Ala Leu Ile Ala Leu
 65 70 75 80
 Val Val Phe Gln Met Ile Gly Gly Met Thr Asp Phe Tyr Arg Ser Trp
 85 90 95
 Arg Gly Val Lys Met Thr Thr Glu Leu Met Leu Leu Leu Gln Asn Trp
 100 105 110
 Thr Leu Ser Leu Val Phe Ser Ala Gly Leu Val Ala Phe Ser His Asp
 115 120 125
 Phe Asp Asn Arg Leu Val Thr Tyr Leu Cys Trp Tyr Leu Leu Thr Ser
 130 135 140
 Ile Gly Met Val Val Cys Arg Ser Leu Ile Arg Phe Gly Ala Gly Trp
 145 150 155 160
 Leu Arg Asn Arg Gly Tyr Asn Arg Arg Phe Val Ala Val Ala Gly Asp
 165 170 175
 Leu Pro Val Gly Gln Val Leu Leu Asp Ser Phe Arg Lys Glu Pro Trp
 180 185 190
 Leu Gly Phe Glu Val Val Gly Ile Tyr His Asp Ala Lys Pro Gly Gly
 195 200 205
 Val Pro Ser Asp Trp Ala Gly Asn Tyr Glu Gln Leu Ile Asp Asp Ala
 210 215 220
 Lys Ala Gly Lys Ile His Asn Val Tyr Ile Ala Met Gln Met Lys Asp
 225 230 235 240
 Glu Ser Arg Ile Lys Lys Leu Met Arg Glu Leu Ala Asp Thr Thr Cys
 245 250 255
 Ser Val Ile Leu Ile Pro Asp Val Phe Thr Phe Asn Ile Leu His Ser
 260 265 270
 Arg Ile Glu Glu Val Asn Gly Val Pro Val Val Pro Leu Tyr Asp Thr
 275 280 285
 Pro Leu Ser Gly Ile Asn Arg Val Leu Lys Arg Ala Glu Asp Ile Val
 290 295 300
 Leu Ser Ser Leu Ile Leu Leu Leu Ile Ser Pro Val Leu Cys Cys Ile
 305 310 315 320
 Ala Leu Ala Val Lys Leu Ser Ser Pro Gly Pro Ile Ile Phe Arg Gln
 325 330 335
 Thr Arg Tyr Gly Met Asp Gly Lys Pro Ile Met Val Trp Lys Phe Arg
 340 345 350
 Ser Met Lys Val Met Glu Asn Asp Lys Val Val Thr Gln Ala Thr Gln
 355 360 365
 Asn Asp Pro Arg Val Thr Arg Val Gly Asn Phe Leu Arg Arg Thr Ser
 370 375 380
 Leu Asp Glu Leu Pro Gln Phe Ile Asn Val Phe Thr Gly Gly Met Ser
 385 390 395 400
 Ile Val Gly Pro Arg Pro His Ala Val Ala His Asn Glu Gln Tyr Arg

				405					410				415				
Thr	Leu	Ile	Glu	Gly	Tyr	Met	Leu	Arg	His	Lys	Val	Lys	Pro	Gly	Ile		
			420					425					430				
Thr	Gly	Trp	Ala	Gln	Ile	Asn	Gly	Trp	Arg	Gly	Glu	Thr	Asp	Thr	Leu		
		435					440					445					
Glu	Lys	Met	Glu	Lys	Arg	Ile	Glu	Phe	Asp	Leu	Glu	Tyr	Ile	Arg	Glu		
	450					455					460						
Trp	Ser	Leu	Trp	Phe	Asp	Ile	Lys	Ile	Val	Phe	Leu	Thr	Ile	Phe	Lys		
465					470					475					480		
Gly	Phe	Val	Asn	Lys	Ala	Ala	Tyr										
				485													

<210> 7422

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 7422

Asn	Gly	Arg	Arg	Tyr	Ser	Ser	Ser	Ala	Gly	Arg	Ile	Ala	Gly	Cys	Asp		
1				5					10					15			
Gly	Gly	Arg	His	Ala	Arg	Pro	Ala	Ala	Cys	Asp	Gln	Arg	Thr	Ser	Gly		
			20					25					30				
Gly	Gly	Gly	Lys	Ser	Arg	Thr	Arg	Lys	Arg	Tyr	Trp	His	Gly	Glu	Ile		
		35					40					45					
Arg	Thr	Arg	Pro	Arg	Pro	Gly	Gly	Glu	Met	Lys	Phe	Gly	Phe	Phe	Leu		
	50					55					60						
Leu	Lys	Phe	Pro	Leu	Ser	Ser	Glu	Thr	Phe	Val	Leu	Asn	Gln	Ile	Thr		
65				70						75					80		
Ala	Phe	Ile	Asp	Met	Gly	Tyr	Asp	Val	Glu	Ile	Ile	Ala	Leu	Gln	Lys		
				85					90					95			
Gly	Asp	Thr	Gln	Asn	Thr	His	Ala	Ala	Tyr	Thr	Arg	Tyr	Gly	Leu	Glu		
			100					105					110				
Ala	Lys	Thr	Arg	Trp	Leu	Gln	Asp	Glu	Pro	Ala	Gly	Arg	Met	Asn	Lys		
		115					120					125					
Leu	Arg	His	Arg	Ala	Gly	Gln	Thr	Leu	Arg	Gly	Leu	His	Arg	Ala	Ser		
	130				135						140						
Thr	Trp	Arg	Ala	Leu	Asn	Met	Ser	Arg	Tyr	Gly	Ala	Glu	Ala	Arg	Asn		
145					150					155					160		
Leu	Ile	Leu	Ser	Ala	Ile	Cys	Gly	Gln	Thr	Ala	Gln	Pro	Tyr	Arg	Ala		
			165						170					175			
Asp	Val	Phe	Ile	Ala	His	Phe	Gly	Pro	Ala	Gly	Val	Thr	Ala	Ala	Lys		
		180					185						190				
Leu	Arg	Glu	Leu	Gly	Val	Ile	Asp	Gly	Lys	Ile	Ala	Thr	Ile	Phe	His		
		195					200					205					
Gly	Ile	Asp	Ile	Ser	Ser	Arg	Glu	Val	Leu	Asn	His	Tyr	Thr	Pro	Glu		
	210					215					220						
Tyr	Gln	Gln	Leu	Phe	Arg	Arg	Gly	Asp	Met	Met	Leu	Pro	Ile	Ser	Asn		
225					230					235					240		
Leu	Trp	Ala	Gly	Arg	Leu	Lys	Thr	Met	Gly	Cys	Pro	Ser	Glu	Lys	Ile		
			245						250					255			
Thr	Val	Ser	Arg	Met	Gly	Val	Asp	Met	Glu	Arg	Phe	Thr	Gln	Arg	Pro		
			260					265					270				
Val	Lys	Val	Pro	Gly	Lys	Pro	Leu	Gln	Ile	Ile	Ser	Val	Ala	Arg	Leu		
		275					280					285					
Thr	Glu	Lys	Lys	Gly	Leu	His	Val	Ala	Ile	Glu	Ala	Cys	Arg	Gln	Leu		
	290					295					300						
Lys	Ala	Arg	Gly	Val	Asp	Phe	His	Tyr	Arg	Ile	Leu	Gly	Ile	Gly	Pro		
305					310					315					320		
Trp	Glu	Arg	Arg	Leu	Arg	Thr	Leu	Ile	Glu	Gln	Tyr	Gln	Leu	Glu	Asp		
			325						330					335			
Val	Val	Glu	Met	Pro	Gly	Phe	Lys	Pro	Ser	His	Glu	Val	Lys	Ala	Met		

			340					345				350			
Leu	Asp	Asp	Ala	Asp	Val	Phe	Leu	Leu	Pro	Ser	Val	Thr	Gly	Ala	Asp
		355					360					365			
Gly	Asp	Met	Glu	Gly	Ile	Pro	Val	Ala	Leu	Met	Glu	Ala	Met	Ala	Val
		370				375					380				
Gly	Ile	Pro	Val	Val	Ser	Thr	Leu	His	Ser	Gly	Ile	Pro	Glu	Leu	Ile
385					390					395					400
Thr	Ser	Glu	His	Ser	Gly	Trp	Leu	Val	Pro	Glu	Asn	Asn	Ala	Leu	Ala
				405					410					415	
Leu	Ala	Asp	Arg	Leu	Ala	Ala	Phe	Ser	Asp	Ile	Asp	Gln	Gln	Thr	Leu
			420					425					430		
Ile	Pro	Val	Leu	Gln	Asn	Ala	Arg	Gln	Lys	Val	Glu	Ala	Glu	Phe	Asn
		435					440					445			
Gln	Gln	Val	Ile	Asn	Arg	Gln	Leu	Ala	Ser	Leu	Leu	Gln	Thr	Leu	
	450					455					460				

<210> 7423

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7423

Gly	Cys	Met	Leu	Lys	Lys	Ile	Thr	Arg	Arg	Arg	Phe	Val	Ser	Ser	Leu
1				5				10						15	
Ser	Val	Leu	Ala	Ala	Met	Pro	Leu	Leu	Ser	Pro	Arg	Ala	Ala	Arg	Ala
			20					25					30		
Ala	Thr	Gly	Lys	Thr	Val	Ser	Val	Asp	Arg	Tyr	Asn	Asn	Asn	Asp	Trp
		35					40					45			
Ile	Ala	Ala	Phe	Lys	Gln	Ala	Phe	Thr	Glu	Gly	Asp	Thr	Val	Val	Val
	50					55				60					
Pro	Ala	Gly	Leu	Thr	Cys	Glu	Asn	Ile	Asn	Thr	Gly	Ile	Phe	Ile	Pro
65				70					75						80
Asp	Gly	Lys	Thr	Leu	Leu	Ile	Arg	Gly	Ala	Leu	Lys	Gly	Asn	Gly	Arg
			85					90					95		
Gly	Arg	Phe	Val	Leu	Gln	Glu	Gly	Cys	Lys	Val	Ile	Gly	Glu	Gly	Glu
		100					105						110		
Gly	Arg	Thr	His	Asn	Ile	Thr	Leu	Asp	Val	Arg	Gly	Ser	Asp	Cys	Val
	115					120					125				
Ile	Lys	Gly	Leu	Ala	Met	Ser	Gly	Phe	Gly	Pro	Val	Thr	Gln	Ile	Tyr
	130					135					140				
Ile	Gly	Gly	Lys	Lys	Pro	Arg	Val	Met	Arg	Asn	Leu	Leu	Ile	Asp	Arg
145				150					155						160
Ile	Ala	Val	Ser	Gln	Ala	Asn	Tyr	Ala	Ile	Leu	Arg	Gln	Gly	Phe	His
			165					170						175	
Asn	Gln	Val	Asp	Gly	Ala	Arg	Ile	Thr	Asn	Ser	Lys	Phe	Ser	His	Leu
		180					185						190		
Gln	Gly	Asp	Ala	Ile	Glu	Trp	Asn	Val	Ala	Ile	Asn	Asp	Arg	Asn	Ile
	195					200						205			
Leu	Ile	Ser	Asp	His	Val	Ile	Asp	Asn	Ile	Asn	Cys	Thr	Asn	Gly	Lys
	210					215					220				
Ile	Asn	Trp	Gly	Ile	Gly	Ile	Gly	Leu	Ala	Gly	Ser	Thr	Tyr	Asp	Asn
225				230					235						240
Asp	Tyr	Pro	Glu	Gln	Gln	Thr	Val	Lys	Asn	Phe	Val	Val	Ala	Asn	Ile
			245					250						255	
Thr	Gly	Ser	Asn	Cys	Arg	Gln	Leu	Val	His	Val	Glu	Asn	Gly	Lys	His
		260					265						270		
Phe	Val	Ile	Arg	Asn	Ile	Lys	Ala	Ser	Asn	Ile	Thr	Pro	Asp	Phe	Ser
	275					280						285			
Lys	Lys	Ala	Gly	Ile	Asp	Asn	Ala	Thr	Val	Ala	Ile	Tyr	Gly	Cys	Asp
	290				295						300				
Asn	Phe	Val	Ile	Asp	Asn	Ile	Asp	Met	Val	Asn	Ser	Ala	Gly	Met	Leu

305 310 315 320
 Ile Gly Tyr Gly Val Ile Lys Gly Asp Tyr Leu Ser Ile Pro Gln Asn
 325 330
 Phe Lys Leu Asn Asp Ile Arg Leu Asp Asn Arg Gln Leu Ala Tyr Lys
 340 345 350
 Leu Arg Gly Ile Gln Ile Ser Ser Gly Asn Ala Thr Ser Phe Val Ala
 355 360 365
 Ile Thr Asn Val Glu Met Gln Arg Ala Thr Leu Glu Leu His Asn Lys
 370 375 380
 Pro Gln His Leu Phe Leu Arg Asn Ile Asn Val Met Gln Glu Ser Thr
 385 390 395 400
 Thr Gly Pro Ala Leu Lys Met Asn Phe Asp Leu Arg Lys Asp Val Arg
 405 410 415
 Gly Lys Phe Met Ala Lys Asn Glu Thr Leu Leu Ser Leu Ala Asn Ile
 420 425 430
 Lys Ala Val Asn Glu Lys Gly Gln Ser Ser Val Asp Ile Asp Arg Val
 435 440 445
 Asp Gln His Val Val Asn Thr Glu Arg Leu Asn Phe Ala Leu Pro His
 450 455 460
 Arg
 465

<210> 7424

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 7424

Arg Ile Glu Trp Ile Met Asn Asp Lys Val Leu Phe Ile Gly Ala Ser
 1 5 10 15
 Gly Phe Val Gly Thr Arg Leu Ile Glu Ile Ser Lys Thr Asp Phe Asp
 20 25 30
 Val Thr Asn Phe Asp Lys Gln Gln Ser His Phe Tyr Pro Asp Ile Thr
 35 40 45
 Val Ser Gly Asp Val Arg Asn Gln Asp Gln Leu Asp Gln Ala Leu Ala
 50 55 60
 Gly Phe Glu Thr Val Val Leu Leu Ala Ala Glu His Arg Asp Asp Val
 65 70 75 80
 Ser Pro Thr Ser Leu Tyr Tyr Asp Val Asn Val Gln Gly Thr Arg Asn
 85 90 95
 Val Leu Ser Ala Met Glu Lys Asn Asn Val Lys Asn Ile Ile Phe Thr
 100 105 110
 Ser Ser Val Ala Val Tyr Gly Leu Asn Lys Val Asn Pro Asp Glu Ser
 115 120 125
 His Pro His Asp Pro Phe Asn His Tyr Gly Lys Ser Lys Trp Gln Ala
 130 135 140
 Glu Glu Val Leu Arg Glu Trp Phe Asn Lys Ala Pro Glu Glu Arg Ser
 145 150 155 160
 Leu Thr Ile Val Arg Pro Thr Val Ile Phe Gly Glu Arg Asn Arg Gly
 165 170 175
 Asn Val Tyr Asn Leu Leu Lys Gln Ile Ala Gly Gly Lys Phe Ala Met
 180 185 190
 Val Gly Ala Gly Thr Asn Tyr Lys Ser Met Ala Tyr Val Gly Asn Ile
 195 200 205
 Val Glu Phe Ile Lys Phe Lys Leu Thr Asn Val Lys Pro Gly Tyr Asp
 210 215 220
 Val Tyr Asn Tyr Val Asp Lys Pro Asp Leu Asn Met Asn Gln Leu Val
 225 230 235 240
 Ser Glu Val Glu Lys Ser Leu Asn Lys Lys Ile Pro Ser Val His Leu
 245 250 255
 Pro Tyr Pro Leu Gly Met Leu Gly Gly Tyr Cys Phe Asp Ile Leu Ser

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<210> 7425
<211> 146
<212> PRT
<213> Enterobacter cloacae
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<210> 7426
<211> 232
<212> PRT
<213> Enterobacter cloacae
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<400> 7426															
Phe	Val	Ala	Ser	Val	Val	Leu	Leu	Leu	Ser	Arg	Gln	Ser	Arg	Leu	Tyr
1				5					10					15	
Gly	Asp	Lys	Gly	Cys	Gln	Ser	Leu	Arg	Phe	Thr	Leu	Lys	Arg	Ser	Leu
			20					25					30		
Ala	Ser	Phe	Ser	Trp	Gly	Gly	Asn	Cys	Leu	His	Ser	Leu	Leu	Gln	Glu
			35				40					45			
Lys	Gln	Lys	Thr	Gly	Ile	Phe	Met	Val	Leu	Ile	Ile	Tyr	Ala	His	Pro
	50					55					60				
Tyr	Pro	Gln	His	Ser	His	Ala	Asn	Lys	Arg	Met	Leu	Glu	Gln	Ala	Arg
65					70					75					80
Thr	Leu	Glu	Asn	Val	Glu	Ile	Arg	Ser	Leu	Tyr	Gln	Leu	Tyr	Pro	Asp
				85					90					95	
Phe	Asn	Ile	Asp	Val	Ala	Ala	Glu	Gln	Glu	Ala	Leu	Ser	Arg	Ala	Asp
			100					105					110		
Leu	Ile	Val	Trp	Gln	His	Pro	Met	Gln	Trp	Tyr	Ser	Thr	Pro	Pro	Leu
		115					120					125			

Leu Lys Leu Trp Ile Asp Lys Val Phe Ser His Gly Trp Ala Tyr Gly
 130 135 140
 His Asn Gly Asn Ala Leu His Gly Lys Ser Leu Met Trp Ala Val Thr
 145 150 155 160
 Thr Gly Gly Gly Glu Ser His Phe Glu Ile Gly Ala Phe Pro Gly Phe
 165 170 175
 Asp Val Leu Ala Gln Pro Leu Gln Ala Thr Ala Leu Tyr Cys Gly Leu
 180 185 190
 Asn Trp Leu Pro Pro Phe Ala Met His Cys Thr Phe Val Cys Asp Asp
 195 200 205
 Glu Thr Leu Gln Ala Gln Ala Arg His Tyr Lys Gln Arg Leu Leu Glu
 210 215 220
 Trp Gln Glu Thr His Asn Gly
 225 230

<210> 7427

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 7427

Pro Lys Ile Val Arg Ser Ile Thr Lys Ile Gln Leu Arg Ala Gly Glu
 1 5 10 15
 Tyr Thr Met Gln Asn Lys Leu Leu Ile Ala Ser Val Leu Ala Ala Thr
 20 25 30
 Ala Met Phe Thr Val Ala Gly Cys Ser Ser Asn Gln Ala Val Lys Thr
 35 40 45
 Thr Asp Gly Lys Thr Ile Val Thr Asp Gly Lys Pro Gln Val Asp Asp
 50 55 60
 Asp Thr Gly Leu Val Ser Tyr Lys Asn Ala Glu Thr Gly Gln Thr Glu
 65 70 75 80
 Gln Ile Asn Arg Asp Gln Val Lys Ser Met Gly Glu Leu Asp Asn
 85 90 95

<210> 7428

<211> 659

<212> PRT

<213> Enterobacter cloacae

<400> 7428

Thr Gly Phe Arg Leu Leu Arg Cys Thr Val Pro Leu Ser Ala Thr Met
 1 5 10 15
 Lys Pro Cys Arg Arg Arg Leu Val Thr Thr Asn Asn Ala Tyr Leu Ser
 20 25 30
 Gly Arg Arg Arg Thr Met Asp Ser His Thr Leu Ile Gln Ala Leu Ile
 35 40 45
 Tyr Leu Gly Ala Ala Ala Leu Ile Val Pro Val Ala Val Arg Leu Gly
 50 55 60
 Leu Gly Ser Val Leu Gly Tyr Leu Ile Ala Gly Cys Val Ile Gly Pro
 65 70 75 80
 Trp Gly Phe Arg Leu Val Thr Asp Ala Glu Ser Ile Leu His Phe Ala
 85 90 95
 Glu Ile Gly Val Val Leu Met Leu Phe Val Ile Gly Leu Glu Leu Asp
 100 105 110
 Pro Gln Arg Leu Trp Lys Leu Arg Ala Ser Val Phe Gly Gly Gly Ala
 115 120 125
 Leu Gln Met Leu Ala Cys Gly Leu Leu Leu Gly Gly Phe Cys Ile Leu
 130 135 140
 Leu Gly Met Glu Trp Lys Val Ala Glu Leu Ile Gly Met Thr Leu Ala
 145 150 155 160
 Leu Ser Ser Thr Ala Ile Ala Met Gln Ala Met Asn Glu Arg Asn Leu

Ser Ala

<210> 7429

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7429

Trp	Arg	Gln	Phe	Phe	Ala	Ser	Gly	Lys	Phe	Ser	Met	Ile	Ser	Leu	Ile
1				5					10					15	
Ala	Ala	Leu	Ala	Val	Asp	Arg	Val	Ile	Gly	Met	Glu	Asn	Ala	Met	Pro
		20						25					30		
Trp	Asn	Leu	Pro	Ala	Asp	Leu	Ala	Trp	Phe	Lys	Arg	Thr	Thr	Leu	Asn
	35						40					45			
Lys	Pro	Val	Val	Met	Gly	Arg	Leu	Thr	Trp	Glu	Ser	Ile	Gly	Arg	Pro
	50					55					60				
Leu	Pro	Gly	Arg	Lys	Asn	Ile	Val	Ile	Ser	Ser	Gln	Pro	Gly	Thr	Asp
65					70					75					80
Asp	Arg	Val	Gln	Trp	Val	Lys	Ser	Val	Asp	Glu	Ala	Ile	Ala	Ala	Cys
				85					90					95	
Gly	Asp	Ala	Glu	Ile	Met	Val	Ile	Gly	Gly	Gly	Arg	Val	Tyr	Glu	
		100					105					110			
Gln	Phe	Leu	Pro	Lys	Ala	Gln	Lys	Leu	Tyr	Leu	Thr	His	Ile	Asp	Ala
		115					120					125			
Glu	Val	Glu	Gly	Asp	Thr	His	Phe	Pro	Asp	Tyr	Asp	Pro	Asp	Glu	Trp
	130					135					140				
Glu	Ser	Val	Phe	Ser	Glu	Phe	His	Asp	Ala	Asp	Glu	Gln	Asn	Ser	His
145					150					155					160
Ser	Tyr	Cys	Phe	Glu	Ile	Leu	Glu	Arg	Arg						
				165					170						

<210> 7430

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 7430

Gly	Gly	Gly	Tyr	Ala	Cys	Pro	Ser	Ser	Arg	Leu	Val	Lys	Thr	Arg	Leu
1				5					10					15	
Leu	Arg	Glu	Lys	Gly	Ala	Gln	Asn	Gly	Cys	Ile	Ile	Ala	Gly	Asp	Asn
		20						25					30		
Leu	Asp	Ala	Thr	Leu	Ala	Leu	Glu	Lys	Ala	Lys	Ala	Phe	Pro	Gly	Leu
	35						40					45			
Asn	Gly	Met	Asp	Leu	Ala	Lys	Glu	Val	Thr	Thr	Ala	Glu	Ala	Tyr	Ser
	50					55					60				
Trp	Thr	Gln	Gly	Ser	Trp	Thr	Leu	Glu	Gly	Asp	Leu	Pro	Glu	Ala	Lys
65					70					75					80
Pro	Glu	Ser	Glu	Leu	Pro	Phe	His	Val	Val	Ala	Tyr	Asp	Phe	Gly	Ala
				85					90					95	
Lys	Arg	Asn	Ile	Leu	Arg	Met	Leu	Val	Asp	Arg	Gly	Cys	Arg	Leu	Thr
		100					105						110		
Met	Val	Pro	Ala	Gln	Thr	Ser	Ala	Glu	Asp	Val	Leu	Lys	Met	Asn	Pro
		115					120					125			
Asp	Gly	Ile	Phe	Leu	Ser	Asn	Gly	Pro	Gly	Asp	Pro	Ala	Pro	Cys	Asp
	130					135					140				
Tyr	Ala	Ile	Ala	Ala	Ile	Lys	Ser	Phe	Leu	Glu	Thr	Asp	Ile	Pro	Val
145					150					155					160
Phe	Gly	Ile	Cys	Leu	Gly	His	Gln	Leu	Leu	Ala	Leu	Ala	Ser	Gly	Ala
			165					170						175	
Asn	Thr	Val	Lys	Met	Lys	Phe	Gly	His	His	Gly	Gly	Asn	His	Pro	Val


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<210> 7431
<211> 1081
<212> PRT
<213> Enterobacter cloacae
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<400>	7431														
Ser 1	Gly	Ala	Glu	Lys 5	Thr	Met	Pro	Lys	Arg 10	Thr	Asp	Ile	Lys 15	Ser	Ile
Leu	Ile	Leu	Gly 20	Ala	Gly	Pro	Ile	Val 25	Ile	Gly	Gln	Ala	Cys 30	Glu	Phe
Asp	Tyr 35	Ser	Gly	Ala	Gln	Ala	Cys 40	Lys	Ala	Leu	Arg	Glu 45	Glu	Gly	Tyr
Arg	Val 50	Ile	Leu	Val	Asn	Ser 55	Asn	Pro	Ala	Thr	Ile 60	Met	Thr	Asp	Pro
Glu 65	Met	Ala	Asp	Ala	Thr 70	Tyr	Ile	Glu	Pro	Ile 75	His	Trp	Glu	Val	Val 80
Arg	Lys	Ile	Ile	Glu 85	Lys	Glu	Arg	Pro	Asp 90	Ala	Val	Leu	Pro	Thr 95	Met
Gly	Gly	Gln	Thr 100	Ala	Leu	Asn	Cys	Ala 105	Leu	Glu	Leu	Glu	Arg 110	Gln	Gly
Val	Leu	Glu 115	Glu	Phe	Gly	Val	Thr 120	Met	Ile	Gly	Ala	Thr 125	Ala	Asp	Ala
Ile	Asp 130	Lys	Ala	Glu	Asp	Arg 135	Arg	Arg	Phe	Asp	Val 140	Ala	Met	Lys	Lys
Ile 145	Gly	Leu	Asp	Thr	Ala 150	Arg	Ser	Gly	Ile	Ala 155	His	Asn	Met	Glu	Glu 160
Ala	Leu	Ala	Val	Ala 165	Ala	Glu	Val	Gly	Tyr 170	Pro	Cys	Ile	Ile	Arg 175	Pro
Ser	Phe	Thr	Met 180	Gly	Gly	Thr	Gly	Gly 185	Gly	Ile	Ala	Tyr	Asn 190	Arg	Glu
Glu	Phe	Glu	Glu 195	Ile	Cys	Glu	Arg	Gly 200	Leu	Asp	Leu	Ser 205	Pro	Thr	Lys
Glu	Leu	Leu	Ile 210	Asp	Glu	Ser 215	Leu	Ile	Gly	Trp	Lys 220	Glu	Tyr	Glu	Met
Glu 225	Val	Val	Arg	Asp	Lys 230	Asn	Asp	Asn	Cys	Ile 235	Ile	Val	Cys	Ser	Ile 240
Glu	Asn	Phe	Asp	Ala 245	Met	Gly	Ile	His	Thr 250	Gly	Asp	Ser	Ile	Thr 255	Val
Ala	Pro	Ala	Gln 260	Thr	Leu	Thr	Asp	Lys 265	Glu	Tyr	Gln	Ile	Met	Arg	Asn
Ala	Ser	Met	Ala 275	Val	Leu	Arg	Glu	Ile 280	Gly	Val	Glu	Thr 285	Gly	Gly	Ser
Asn	Val 290	Gln	Phe	Ser	Val	Asn 295	Pro	Lys	Thr	Gly	Arg 300	Leu	Ile	Val	Ile
Glu 305	Met	Asn	Pro	Arg	Val 310	Ser	Arg	Ser	Ser	Ala 315	Leu	Ala	Ser	Lys	Ala 320
Thr	Gly	Phe	Pro	Ile	Ala	Lys	Val	Ala	Ala	Lys	Leu	Ala	Val	Gly	Tyr

				325						330						335
Thr	Leu	Asp	Glu	Leu	Met	Asn	Asp	Ile	Thr	Gly	Gly	Arg	Thr	Pro	Ala	
			340					345					350			
Ser	Phe	Glu	Pro	Ser	Ile	Asp	Tyr	Val	Val	Thr	Lys	Ile	Pro	Arg	Phe	
		355					360					365				
Asn	Phe	Glu	Lys	Phe	Ala	Gly	Ala	Asn	Asp	Arg	Leu	Thr	Thr	Gln	Met	
		370				375					380					
Lys	Ser	Val	Gly	Glu	Val	Met	Ala	Ile	Gly	Arg	Thr	Gln	Gln	Glu	Ser	
385					390					395					400	
Leu	Gln	Lys	Ala	Leu	Arg	Gly	Leu	Glu	Val	Gly	Ala	Thr	Gly	Phe	Asp	
				405					410					415		
Pro	Lys	Val	Ser	Leu	Asp	Asp	Pro	Glu	Ala	Leu	Thr	Lys	Ile	Arg	Arg	
			420					425					430			
Glu	Leu	Lys	Asp	Ala	Gly	Ala	Glu	Arg	Ile	Trp	Tyr	Ile	Ala	Asp	Ala	
		435					440					445				
Phe	Arg	Ala	Gly	Leu	Ser	Val	Asp	Gly	Val	Phe	Asn	Leu	Thr	Asn	Ile	
		450				455					460					
Asp	Arg	Trp	Phe	Leu	Val	Gln	Ile	Glu	Glu	Leu	Val	Arg	Leu	Glu	Glu	
465					470					475					480	
Lys	Val	Ala	Glu	Leu	Gly	Ile	Asn	Gly	Leu	Asp	Ala	Asp	Phe	Leu	Arg	
				485					490					495		
Met	Leu	Lys	Arg	Lys	Gly	Phe	Ala	Asp	Ala	Arg	Leu	Ala	Lys	Leu	Ala	
			500					505					510			
Gly	Val	Arg	Glu	Ala	Glu	Ile	Arg	Lys	Leu	Arg	Asp	Gln	Tyr	Asp	Leu	
		515					520					525				
His	Pro	Val	Tyr	Lys	Arg	Val	Asp	Thr	Cys	Ala	Ala	Glu	Phe	Ser	Thr	
		530				535					540					
Asp	Thr	Ala	Tyr	Met	Tyr	Ser	Thr	Tyr	Glu	Asp	Glu	Cys	Glu	Ala	Asn	
545					550					555					560	
Pro	Ser	Val	Asp	Arg	Asp	Lys	Ile	Met	Val	Leu	Gly	Gly	Gly	Pro	Asn	
				565					570					575		
Arg	Ile	Gly	Gln	Gly	Ile	Glu	Phe	Asp	Tyr	Cys	Cys	Val	His	Ala	Ser	
			580				585						590			
Leu	Ala	Leu	Arg	Glu	Asp	Gly	Tyr	Glu	Thr	Ile	Met	Val	Asn	Cys	Asn	
		595					600					605				
Pro	Glu	Thr	Val	Ser	Thr	Asp	Tyr	Asp	Thr	Ser	Asp	Arg	Leu	Tyr	Phe	
		610				615					620					
Glu	Pro	Val	Thr	Leu	Glu	Asp	Val	Leu	Glu	Ile	Val	Arg	Ile	Glu	Lys	
625					630					635					640	
Pro	Lys	Gly	Val	Ile	Val	Gln	Tyr	Gly	Gly	Gln	Thr	Pro	Leu	Lys	Leu	
				645					650					655		
Ala	Arg	Ala	Leu	Glu	Ala	Ala	Gly	Val	Pro	Val	Ile	Gly	Thr	Ser	Pro	
			660					665					670			
Asp	Ala	Ile	Asp	Arg	Ala	Glu	Asp	Arg	Glu	Arg	Phe	Gln	Gln	Ala	Val	
		675														

Gln Gln Val Gln Lys Leu Ala Phe Glu Leu Gln Val Arg Gly Leu Met
 820 825 830
 Asn Val Gln Phe Ala Val Lys Asp Asn Glu Val Tyr Leu Ile Glu Val
 835 840 845
 Asn Pro Arg Ala Ala Arg Thr Val Pro Phe Val Ser Lys Ala Thr Gly
 850 855 860
 Ile Pro Leu Ala Lys Val Ala Ala Arg Val Met Ala Gly Gln Thr Leu
 865 870 875 880
 Ala Gln Gln Gly Val Thr Lys Glu Ile Ile Pro Pro Tyr Tyr Ser Val
 885 890 895
 Lys Glu Val Val Leu Pro Phe Asn Lys Phe Pro Gly Val Asp Pro Leu
 900 905 910
 Leu Gly Pro Glu Met Arg Ser Thr Gly Glu Val Met Gly Val Gly Arg
 915 920 925
 Thr Phe Ala Glu Ala Phe Ala Lys Ala Gln Leu Gly Ser Ser Ser Thr
 930 935 940
 Met Arg Lys Ser Gly Arg Ala Leu Leu Ser Val Arg Glu Gly Asp Lys
 945 950 955 960
 Glu Arg Val Val Asp Leu Ala Ala Lys Leu Leu Lys Gln Gly Phe Glu
 965 970 975
 Leu Asp Ala Thr His Gly Thr Ala Ile Val Leu Gly Glu Ala Gly Ile
 980 985 990
 Asn Pro Arg Leu Val Asn Lys Val His Glu Gly Arg Pro His Ile Gln
 995 1000 1005
 Asp Arg Ile Lys Asn Gly Glu Tyr Thr Tyr Ile Ile Asn Thr Thr Ala
 1010 1015 1020
 Gly Arg Gln Ala Ile Glu Asp Ser Lys Leu Ile Arg Arg Ser Ala Leu
 1025 1030 1035 1040
 Gln Tyr Lys Val His Tyr Asp Thr Thr Leu Asn Gly Gly Phe Ala Thr
 1045 1050 1055
 Ala Met Ala Leu Asn Ala Asp Ala Thr Glu Lys Val Ile Ser Val Gln
 1060 1065 1070
 Glu Met His Ala Gln Ile Ser Lys
 1075 1080

<210> 7432

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 7432

Asn Gly Lys Ser Met Lys Asn Trp Lys Thr Leu Leu Leu Gly Val Ala
 1 5 10 15
 Met Val Ala Asn Thr Ser Phe Ala Ala Pro Gln Val Val Asp Lys Val
 20 25 30
 Ala Ala Val Val Asn Asn Gly Val Val Leu Glu Ser Asp Val Asp Gly
 35 40 45
 Leu Met Lys Ser Val Lys Leu Asn Ser Gly Gln Ala Gly Gln Gln Leu
 50 55 60
 Pro Asp Asp Ala Thr Leu Arg His Gln Ile Leu Glu Arg Leu Ile Met
 65 70 75 80
 Asp Gln Ile Val Leu Gln Met Gly Gln Lys Met Gly Val Lys Ile Ser
 85 90 95
 Asp Glu Gln Leu Asp Gln Ala Ile Ala Asn Ile Ala Lys Gln Asn Asn
 100 105 110
 Ile Thr Pro Asp Gln Met Arg Ser Arg Leu Ala Tyr Asp Gly Ile Ser
 115 120 125
 Tyr Ala Thr Tyr Arg Asn Gln Ile Arg Lys Glu Met Leu Ile Ser Glu
 130 135 140
 Val Arg Asn Asn Glu Val Arg Arg Arg Val Thr Ile Leu Pro Gln Glu
 145 150 155 160

Val	Asp	Ala	Leu	Ala	Lys	Gln	Val	Gly	Asn	Gln	Asn	Asp	Ala	Ser	Thr
				165					170					175	
Glu	Leu	Asn	Leu	Ser	His	Ile	Leu	Ile	Pro	Leu	Pro	Glu	Asn	Pro	Thr
			180					185					190		
Ser	Asp	Gln	Ala	Ala	Glu	Ala	Glu	Ser	Gln	Ala	Arg	Ala	Ile	Val	Glu
		195					200					205			
Gln	Ala	Arg	Asn	Gly	Asp	Asp	Phe	Gly	Lys	Leu	Ala	Ile	Thr	Tyr	Ser
	210				215						220				
Ala	Asp	Gln	Gln	Ala	Leu	Lys	Gly	Gly	Gln	Met	Gly	Trp	Gly	Arg	Ile
225					230					235					240
Gln	Glu	Leu	Pro	Ser	Leu	Phe	Ala	Gln	Ala	Leu	Ser	Thr	Ala	Lys	Lys
				245					250					255	
Gly	Asp	Ile	Val	Gly	Pro	Ile	Arg	Ser	Gly	Val	Gly	Phe	His	Ile	Leu
			260					265					270		
Lys	Val	Asn	Asp	Leu	Arg	Gly	Gln	Ser	Gln	Asn	Ile	Ser	Val	Thr	Glu
		275					280					285			
Val	His	Ala	Arg	His	Ile	Leu	Leu	Lys	Pro	Ser	Pro	Ile	Met	Thr	Asp
	290					295					300				
Asp	Gln	Ala	Arg	Ala	Lys	Leu	Glu	Gln	Ile	Ala	Ala	Asp	Ile	Lys	Ser
305					310					315					320
Gly	Lys	Thr	Thr	Phe	Asp	Lys	Ala	Ala	Lys	Glu	Phe	Ser	Gln	Asp	Pro
				325					330					335	
Gly	Ser	Ala	Asn	Gln	Gly	Gly	Asp	Leu	Gly	Trp	Ala	Ala	Ala	Asp	Ile
			340					345					350		
Tyr	Asp	Pro	Ala	Phe	Arg	Asp	Ala	Leu	Met	Lys	Leu	Asn	Lys	Gly	Gln
		355					360					365			
Met	Ser	Ala	Pro	Val	His	Ser	Ser	Phe	Gly	Trp	His	Leu	Ile	Gln	Leu
	370					375					380				
Met	Asp	Thr	Arg	Asn	Val	Asp	Lys	Thr	Asp	Ala	Ala	Gln	Lys	Asp	Arg
385					390					395					400
Ala	Tyr	Arg	Met	Leu	Phe	Asn	Arg	Lys	Phe	Ser	Glu	Glu	Ala	Ala	Thr
				405					410					415	
Trp	Met	Gln	Glu	Gln	Arg	Ala	Ser	Ala	Tyr	Val	Lys	Val	Leu	Ser	Asn
			420					425					430		

<210> 7433

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7433

Arg	Pro	Ser	Arg	Thr	Thr	Ser	Ala	Ser	Ala	Pro	Thr	Thr	Phe	Ser	Ala
1				5					10					15	
Asp	Lys	Ala	Asn	Ala	Pro	Ser	Val	Val	Asp	Ala	Pro	Leu	Val	Ala	Ser
			20					25					30		
Ser	Gly	Ile	Ile	Ala	Thr	Ser	Gly	Met	Ala	Ala	Ile	Ser	Trp	Asn	Asn
		35					40					45			
Ser	Thr	Glu	Lys	Val	Leu	Arg	Pro	Ile	Cys	Asp	Thr	Val	Arg	Leu	Arg
	50					55					60				
Ser	Phe	Ile	Ala	Cys	Met	Ala	Ile	Ala	Val	Glu	Glu	Ser	Ala	Ser	Val
65					70					75					80
Met	Pro	Ile	Asn	Ser	Ala	Thr	Phe	His	Ser	Ile	Pro	Ser	Arg	Met	Gln
				85					90					95	
Asn	Pro	Pro	Asn	Ser	Arg	Pro	Gln	Ala	Ser	Ile	Cys	Arg	Ala	Pro	Pro
			100					105					110		
Pro	Asn	Thr	Glu	Ala	Arg	Ser	Phe	His	Ser	Arg	Cys	Gly	Ser	Asn	Ser
		115					120					125			
Arg	Pro	Ile	Thr	Asn	Ser	Ile	Ser	Thr	Thr	Pro	Ile	Ser	Ala	Lys	Cys
	130					135					140				

Arg Ile Asp Ser Ala Ser Val Thr Ser Arg Lys Pro Gln Gly Pro Ile
 145 150 155 160
 Thr His Pro Ala Ile Arg
 165

<210> 7434

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7434

Phe Gly Leu Leu Ala Asp Arg Lys Leu Gln Gly Thr Ala Arg Val Leu
 1 5 10 15
 Asp Gln Val Trp Arg Phe Asn Ile Asp Tyr Thr Lys Val Ser Asp Pro
 20 25 30
 Tyr Tyr Phe Asn Asp Phe Asp Ser Lys Tyr Gly Ser Ser Thr Asp Gly
 35 40 45
 Tyr Ala Thr Gln Lys Phe Ser Val Gly Tyr Ala Ile Glu Asn Phe Asp
 50 55 60
 Ala Thr Val Ser Thr Lys Gln Phe Gln Val Phe Asp Thr Gln Ser Arg
 65 70 75 80
 Ser Thr Tyr Gly Ala Glu Pro Gln Leu Asp Val Asn Trp Tyr Gln Asn
 85 90 95
 Asp Val Gly Pro Phe Asp Thr Arg Val Tyr Ala Gln Ala Val His Phe
 100 105 110
 Val Asn Thr Asn Ser Asp Met Pro Glu Ser Thr Arg Leu His Ile Glu
 115 120 125
 Pro Thr Ile Asn Leu Pro Trp Ser Asn Asp Trp Ala Ser Leu Asn Thr
 130 135 140
 Glu Ala Lys Val Met Ala Thr His Tyr Gln Gln Lys Asn Leu Asp Trp
 145 150 155 160
 Tyr Asn Lys Arg Tyr Gly Thr Asp Leu Glu Glu Ser Val Asn Arg Thr
 165 170 175
 Leu Pro Gln Phe Lys Met Asp Gly Lys Leu Ile Phe Glu Arg Asp Met
 180 185 190
 Ala Leu Leu Ala Asp Gly Tyr Thr Gln Thr Leu Glu Pro Arg Met Gln
 195 200 205
 Tyr Leu Tyr Val Pro Tyr Arg Asp Gln Ser Lys Ile Gln Asn Tyr Asp
 210 215 220
 Ser Ser Phe Leu Gln Ser Asp Tyr Ser Gly Leu Phe Arg Asp Arg Thr
 225 230 235 240
 Tyr Gly Gly Leu Asp Arg Ile Ala Ser Ala Asn Gln Leu Thr Thr Gly
 245 250 255
 Val Thr Thr Arg Val Tyr Asp Asp Ala Ala Val Glu Arg Phe Asn Val
 260 265 270
 Ser Val Gly Gln Ile Tyr Tyr Phe Thr Glu Ser Arg Thr Gly Asp Asp
 275 280 285
 Asp Ile Asn Trp Glu Lys Asp Asn Lys Thr Gly Ser Leu Val Trp Ala
 290 295 300
 Gly Asp Thr Tyr Trp Arg Met Thr Asp Arg Trp Gly Leu Arg Gly Gly
 305 310 315 320
 Val Gln Tyr Asp Thr Arg Leu Asp Asn Ile Ala Thr Gly Ser Ala Ala
 325 330 335
 Ile Glu Tyr Arg Arg Asp Glu Asp Arg Met Leu Gln Leu Thr Tyr Arg
 340 345 350
 Tyr Ala Ser Pro Glu Tyr Ile Gln Ala Thr Leu Pro Asn Tyr Ala Asn
 355 360 365
 Thr Asp Gln Tyr Lys Asp Gly Ile Ser Gln Val Gly Thr Ala Ala Ser
 370 375 380
 Trp Pro Ile Ala Asp Arg Trp Ser Val Val Gly Ala Tyr Tyr Tyr Asp
 385 390 395 400

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<210> 7435
<211> 276
<212> PRT
<213> Enterobacter cloacae
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<210> 7436
<211> 127
<212> PRT
<213> Enterobacter cloacae
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Ala Met Ile Asp Ser Pro Arg Val Cys Val Gln Val Gln Ser Val Tyr

1				5					10				15
Ile	Glu	Ser	Gln	Ser	Thr	Pro	Asp	Glu	Glu	Arg	Phe	Val	Phe
			20					25					30
Thr	Val	Thr	Ile	Arg	Asn	Leu	Gly	Arg	Met	Pro	Val	Gln	Leu
		35					40					45	
Arg	Tyr	Trp	Leu	Ile	Thr	Asn	Gly	Asn	Gly	Arg	Glu	Ile	Glu
	50					55				60			
Gly	Glu	Gly	Val	Val	Gly	Glu	Gln	Pro	His	Ile	Ala	Pro	Gly
65					70				75				80
Tyr	Gln	Tyr	Thr	Ser	Gly	Ala	Val	Ile	Glu	Thr	Pro	Leu	Gly
				85				90					95
Gln	Gly	His	Tyr	Glu	Met	Val	Asp	Ala	Asp	Gly	Asn	Ala	Phe
			100					105					110
Ala	Ile	Pro	Val	Phe	Arg	Leu	Ala	Val	Pro	Thr	Leu	Ile	His
		115					120					125	

<210> 7437

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 7437

Arg	Ser	Arg	Asn	Leu	Asp	Ala	Gly	Thr	Thr	Arg	Gln	Arg	Leu	Arg	Glu
1				5					10					15	
Ser	Val	Glu	Gln	Leu	Met	Lys	Pro	His	Arg	Val	Val	Ile	Thr	Pro	Gly
			20					25					30		
Glu	Pro	Ala	Gly	Ile	Gly	Pro	Asp	Leu	Val	Val	Gln	Leu	Ala	Gln	Cys
		35					40					45			
Ser	Trp	Pro	Val	Glu	Leu	Val	Cys	Ala	Asp	Ala	Thr	Leu	Leu	Gln	
	50				55			60							
Asp	Arg	Ala	Ala	Leu	Leu	Gly	Leu	Pro	Leu	Thr	Leu	Pro	Tyr	Val	
65				70				75						80	
Glu	Gly	Gln	Gln	Pro	Ala	Pro	Gln	Gln	Ser	Gly	Thr	Leu	Thr	Leu	Leu
			85				90						95		
Ser	Val	Pro	Leu	Arg	Ala	Pro	Val	Val	Pro	Gly	Glu	Leu	His	Thr	Glu
			100				105						110		
Asn	Gly	His	Tyr	Val	Val	Glu	Thr	Leu	Ala	Arg	Ala	Cys	Asp	Gly	Cys
		115				120						125			
Leu	Gln	Gly	Glu	Phe	Ala	Ala	Leu	Ile	Thr	Gly	Pro	Val	His	Lys	Gly
	130					135					140				
Val	Ile	Asn	Asp	Ala	Gly	Ile	Pro	Phe	Thr	Gly	His	Thr	Glu	Phe	Phe
145				150				155						160	
Glu	Glu	Arg	Ser	His	Ser	Pro	Lys	Val	Val	Met	Met	Leu	Ala	Thr	Glu
			165					170						175	
Ala	Met	Arg	Val	Ala	Leu	Val	Thr	Thr	His	Leu	Pro	Ile	Lys	Ala	Ile
		180					185						190		
Pro	Asp	Ala	Ile	Thr	Pro	Glu	Leu	Leu	Arg	Glu	Ile	Ile	Gly	Ile	Leu
	195					200						205			
His	His	Asp	Leu	Gln	Thr	Lys	Phe	Gly	Ile	Pro	Gln	Pro	His	Val	Leu
	210					215					220				
Val	Cys	Gly	Leu	Asn	Pro	His	Ala	Gly	Glu	Gly	Gly	His	Met	Gly	Thr
225				230				235						240	
Glu	Glu	Ile	Asp	Thr	Ile	Ile	Pro	Val	Leu	Glu	Glu	Met	Arg	Ala	Lys
			245					250						255	
Gly	Met	Asn	Leu	Ser	Gly	Pro	Leu	Pro	Ala	Asp	Thr	Leu	Phe	Gln	Pro
		260				265							270		
Lys	Tyr	Leu	Asp	Asn	Ala	Asp	Ala	Val	Leu	Ala	Met	Tyr	His	Asp	Gln
	275					280						285			
Gly	Leu	Pro	Val	Leu	Lys	Tyr	Gln	Gly	Phe	Gly	Arg	Gly	Val	Asn	Ile
	290				295						300				
Thr	Leu	Gly	Leu	Pro	Phe	Ile	Arg	Thr	Ser	Val	Asp	His	Gly	Thr	Ala

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<210> 7438
<211> 323
<212> PRT
<213> Enterobacter cloacae
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<210> 7439
<211> 157
<212> PRT
<213> Enterobacter cloacae
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<400> 7439

Cys Ala Ala Gly Cys Gln Gln Arg Asp His Arg His Gln Arg Asp Gly
 1 5 10 15
 Ser Asn Ile Leu Glu Gln Gln Tyr Gly Glu Gly Ala Ala Pro His Leu
 20 25 30
 Arg His Arg Gln Val Thr Leu Val His Ser Leu His Gly Asn Ser Arg
 35 40 45
 Arg Gly Glu Arg Gln Arg His Ala Asp Gln Leu Arg Asp Phe Pro Leu
 50 55 60
 His Pro Glu Gln Asn Ala Glu Pro Ala Gln Gln Gln Thr Ala Gly Gln
 65 70 75 80
 His Leu Gln Ser Thr Ser Ala Lys His Arg Gly Ala Gln Phe Pro Gln
 85 90 95
 Pro Leu Arg Ile Gln Leu Gln Ala Asn His Glu Gln His Lys His His
 100 105 110
 Ala Asp Leu Arg Lys Met Gln Asp Arg Leu Gly Ile Arg His Gln Pro
 115 120 125
 Lys Thr Pro Gly Ala Asn Tyr Thr Pro Gly Asn Gln Ile Ala Glu His
 130 135 140
 Arg Ala Gln Pro Gln Thr Asn Arg His Gly His Asn
 145 150 155

<210> 7440

<211> 1034

<212> PRT

<213> Enterobacter cloacae

<400> 7440

Lys Asn Asn Asn Phe Met Leu Phe Cys Phe Glu Leu Asn Leu Lys Asp
 1 5 10 15
 Ser Gln Tyr Thr Phe Tyr Thr Arg Tyr Leu Met Phe Leu Leu Thr Gln
 20 25 30
 Met Asp Val Tyr Met Ser Lys Lys Phe Phe Lys Leu Asn Asn Thr Thr
 35 40 45
 Lys Thr Leu Gly Lys Ile Phe Pro Ala Leu Leu Ile Cys Thr Pro Ala
 50 55 60
 Val Ala Phe Ser Ala Ile Ile Asp Gln Ser Thr Ser Val Pro Gln Asp
 65 70 75 80
 Phe Ser Ala Asp Ala Glu Tyr Val Ile Asn Lys Asp Val Thr Ile Ser
 85 90 95
 Ser Ala Gly Ser Glu Ala Ala Val Ser Val Thr Gly Phe Thr Thr Thr
 100 105 110
 Thr Thr Thr Asn Tyr Gly Asn Ile Ser Gly Thr Gly Asn Gly Leu Asp
 115 120 125
 Ile Asn Thr Gly Glu Gln Arg Ile Leu Ile Asn Asn Asp Ile Gly Ala
 130 135 140
 Thr Ile Ser Ser Thr Thr Ala Asn Ala Val Asn Ile Gln Ser Met Leu
 145 150 155 160
 Gly Asp Phe Asn Asn Ser Gly Asn Ile Ile Gly Ala Glu Asn Gly Met
 165 170 175
 Phe Val Gly Glu Asn Ser Ser Ala Val Asn Ile Ile Asn Thr Ser Thr
 180 185 190
 Gly Met Ile Lys Gly Lys Thr Gly Leu Ser Thr Arg Tyr Gly Ile Gly
 195 200 205
 Ile Asn Asn Ser Gly Ala Ile Ile Gly Thr Asn Gly Asp Ala Ile Thr
 210 215 220
 Ala Thr Asn Gly Asn Thr Lys Leu Thr Asn Asn Ala Leu Val Gln Gly
 225 230 235 240
 Thr Glu Asn Gly Ile Asn Val Lys Asp Thr Ala Lys Leu Asp Ile Lys
 245 250 255
 Asn Ser Gly Thr Ile Ser Gly Asn Thr Ala Ala Ile Met Phe Ala Ser
 260 265 270

Asn	Lys	Asn	Asn	Thr	Leu	Val	Leu	Asp	Thr	Gly	Ser	Val	Leu	Val	Gly
		275					280					285			
Asp	Val	Ile	Ser	Thr	Asn	Ser	Thr	Gly	Asn	Thr	Leu	Thr	Leu	Ile	Gly
	290					295					300				
Thr	Gly	Thr	Glu	Asp	Ser	Asn	Phe	Val	Gly	Leu	Asn	Glu	Gly	Asp	Gly
305					310					315					320
Phe	Ala	Ser	Val	Thr	Met	Asn	Gly	Glu	Asn	Trp	Ala	Leu	Ser	Gly	Asp
				325					330					335	
Ile	Asp	Ile	Ile	Gly	Ser	Val	Asp	Ser	Leu	Met	Ile	Asp	Lys	Gly	Ala
		340						345				350			
Leu	Thr	Leu	Ala	Gly	Glu	Val	Ser	Asn	Thr	Gly	Asn	Thr	Arg	Val	Ala
		355					360					365			
Lys	His	Ala	Ser	Leu	Gln	Leu	Gly	Asp	Gly	Glu	Lys	Thr	Ala	Thr	Leu
	370					375					380				
Ser	Gly	Gly	Ile	Thr	Asn	Asn	Gly	Thr	Val	Ile	Phe	Asn	Gln	Gly	Ser
385					390					395					400
Asp	Phe	Thr	Phe	Ala	Thr	Asp	Met	Thr	Gly	Ser	Gly	Asn	Val	Glu	Lys
				405					410					415	
Val	Asp	Ser	Asn	Thr	Leu	Thr	Leu	Thr	Gly	Lys	Asn	Ser	Tyr	Lys	Gly
			420					425					430		
Asp	Thr	Val	Leu	His	Gly	Gly	Thr	Thr	Leu	Val	Ser	Thr	Gly	Ala	Thr
		435					440					445			
Leu	Gly	Val	Lys	Gly	Ser	Asn	Ala	Thr	Val	Thr	Val	Glu	Asn	Gly	Ala
	450					455					460				
Thr	Phe	Ala	Thr	Ala	Gly	Glu	Val	Asn	Asn	Asn	Ile	Ala	Val	Leu	Ser
465					470					475					480
Gly	Gly	Thr	Leu	Ala	Ala	Trp	Asn	Ala	Val	Gln	Gly	Asn	Ser	Thr	Leu
				485					490					495	
Ser	Ala	Ser	Asp	Val	Asp	Thr	Ile	Asn	Gly	Asn	Val	Thr	Asn	Gly	Gly
			500					505					510		
Thr	Leu	Leu	Leu	Ser	Ala	Ala	Asp	Asn	Ser	Val	Gly	Asn	Asn	Phe	Ser
		515					520					525			
Ile	Asn	Gly	Asp	Tyr	Thr	Gly	Ser	Asp	Gly	Ser	Gln	Ile	Val	Met	Asn
	530					535					540				
Ser	Thr	Leu	Gly	Glu	Asp	Asn	Ser	Pro	Thr	Asp	His	Leu	Thr	Ile	Thr
545					550					555					560
Gly	Ser	Ser	Phe	Gly	Gln	Ser	Gly	Val	Ser	Ile	Thr	Asn	Ile	Gly	Gly
				565					570					575	
Ala	Gly	Ala	Gln	Thr	Ile	Asn	Gly	Met	Glu	Ile	Val	Ser	Ile	Gly	Gly
			580					585					590		
Ser	Ser	Glu	Ala	Gln	Leu	Thr	Leu	Ala	Lys	Pro	Val	Val	Ala	Gly	Ala
		595					600					605			
Trp	Glu	Tyr	Asn	Leu	Tyr	Gln	His	Ser	Asp	Gly	Asn	Trp	Tyr	Leu	Glu
	610					615					620				
Ser	Lys	Ala	Thr	Pro	Ser	Asp	Asp	Pro	Ser	Asp	Asp	Thr	Asp	Asp	Gly
625					630					635					640
Gly	Asn	Thr	Asp	Asp	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp
				645					650					655	
Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn
			660					665					670		
Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly
		675					680					685			
Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp
	690					695					700				
Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Ser	Thr	Asp	Asn	Gly	Gly	Asn
705					710					715					720
Asn	Ala	Pro	Glu	Val	Met	Ala	Pro	Glu	Val	Gly	Ala	Tyr	Leu	Gly	Asn
			725						730					735	
Tyr	Leu	Ala	Ala	Gln	Gly	Met	Phe	Leu	His	Lys	Arg	Asp	Asp	Arg	Asp
			740					745					750		
Gln	Ile	Thr	Phe	Arg	Asn	Glu	Asp	Asp	Leu	Asn	Thr	Trp	Met	Tyr	Val

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<210> 7441
<211> 407
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Phe	Met	Ser	Pro 5	Ile	Glu	Lys	Ser	Ser 10	Lys	Leu	Asp	Asn	Val 15	Cys
Tyr	Asp	Ile	Arg 20	Gly	Pro	Val	Leu	Lys 25	Glu	Ala	Lys	Arg	Leu 30	Glu	Glu
Glu	Gly	Asn 35	Lys	Val	Leu	Lys	Leu 40	Asn	Ile	Gly	Asn 45	Pro	Ala	Pro	Phe
Gly	Phe 50	Glu	Ala	Pro	Asp	Glu 55	Ile	Leu	Val 60	Asp	Val 65	Ile	Arg	Asn	Leu
Pro 65	Thr	Ala	Gln	Gly 70	Tyr	Cys	Asp	Ser	Lys 75	Gly	Leu	Tyr	Ser	Ala 80	Arg
Lys	Ala	Ile	Met 85	Gln	His	Tyr	Gln	Ala 90	Arg	Gly	Met	Arg	Asp 95	Val	Thr
Val	Glu	Asp 100	Ile	Tyr	Ile	Gly	Asn 105	Gly	Val	Ser	Glu	Leu 110	Ile	Val	Gln
Ala	Met	Gln 115	Ala	Leu	Leu	Asn	Ser 120	Gly	Asp	Glu	Met	Leu 125	Val	Pro	Ala
Pro	Asp 130	Tyr	Pro	Leu	Trp	Thr 135	Ala	Ala	Val	Ser	Leu 140	Ser	Ser	Gly	Lys
Ala	Val	His	Tyr	Leu	Cys	Asp	Glu	Ser	Ser	Asp	Trp	Phe	Pro	Asp	Leu

145					150					155				160
Asp	Asp	Ile	Arg	Ala	Lys	Ile	Thr	Pro	Arg	Thr	Arg	Gly	Ile	Val
				165					170					175
Ile	Asn	Pro	Asn	Asn	Pro	Thr	Gly	Ala	Val	Tyr	Ser	Lys	Glu	Leu
			180					185					190	
Met	Glu	Ile	Val	Glu	Ile	Ala	Arg	Gln	His	Asn	Leu	Ile	Ile	Phe
		195					200					205		Ala
Asp	Glu	Ile	Tyr	Asp	Lys	Ile	Leu	Tyr	Asp	Ala	Ala	Gln	His	His
	210					215				220				Ser
Ile	Ala	Ala	Leu	Ala	Pro	Asp	Leu	Leu	Thr	Val	Thr	Phe	Asn	Gly
225					230					235				Leu
Ser	Lys	Thr	Tyr	Arg	Val	Ala	Gly	Phe	Arg	Gln	Gly	Trp	Met	Val
				245					250					Leu
Asn	Gly	Pro	Lys	Lys	His	Ala	Lys	Gly	Tyr	Ile	Glu	Gly	Leu	Glu
			260					265					270	Met
Leu	Ala	Ser	Met	Arg	Leu	Cys	Ala	Asn	Val	Pro	Ala	Gln	His	Ala
		275					280					285		Ile
Gln	Thr	Ala	Leu	Gly	Gly	Tyr	Gln	Ser	Ile	Ser	Glu	Phe	Ile	Val
	290					295					300			Pro
Gly	Gly	Arg	Leu	Tyr	Glu	Gln	Arg	Asn	Arg	Ala	Trp	Glu	Leu	Ile
305					310					315				Asn
Asp	Ile	Pro	Gly	Val	Ser	Cys	Val	Lys	Pro	Asn	Gly	Ala	Leu	Tyr
				325					330					Met
Phe	Pro	Lys	Ile	Asp	Ala	Lys	Arg	Phe	Asn	Ile	His	Asp	Asp	Gln
			340					345					350	Lys
Met	Val	Leu	Asp	Phe	Leu	Leu	Gln	Glu	Lys	Val	Leu	Leu	Val	Gln
		355					360					365		Gly
Thr	Ala	Phe	Asn	Trp	Pro	Trp	Pro	Asp	His	Val	Arg	Ile	Val	Thr
	370					375					380			Leu
Pro	Arg	Glu	Asp	Asp	Leu	Glu	Met	Ala	Ile	Ser	Arg	Phe	Gly	Arg
385					390					395				Phe
Leu	Ser	Gly	Tyr	His	Gln									400
				405										

<210> 7442

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7442

Pro	Met	Ser	Gln	Ser	His	Phe	Phe	Ala	His	Leu	Ser	Arg	Leu	Lys	Leu
1				5					10					15	
Ile	Asn	Arg	Trp	Pro	Leu	Met	Arg	Asn	Val	Arg	Thr	Glu	Asn	Val	Ser
			20					25					30		
Glu	His	Ser	Leu	Gln	Val	Ala	Met	Val	Ala	His	Ala	Leu	Ala	Ala	Ile
		35					40					45			
Lys	Asn	Arg	Lys	Phe	Asn	Gly	Gln	Val	Asn	Ala	Glu	Arg	Ile	Ala	Leu
	50					55				60					
Leu	Ala	Met	Tyr	His	Asp	Ala	Ser	Glu	Val	Leu	Thr	Gly	Asp	Leu	Pro
65					70					75				80	
Thr	Pro	Val	Lys	Tyr	Phe	Asn	Ser	Gln	Ile	Ala	Gln	Glu	Tyr	Lys	Ala
				85					90					95	
Ile	Glu	Lys	Ile	Ala	Gln	Gln	Lys	Leu	Ile	Asp	Met	Val	Pro	Glu	Glu
			100					105					110		
Leu	Arg	Asp	Ile	Phe	Gly	Pro	Leu	Ile	Asp	Glu	His	Gln	Tyr	Thr	Glu
		115					120					125			
Glu	Glu	Lys	Ser	Leu	Val	Lys	Gln	Ala	Asp	Ala	Leu	Cys	Ala	Tyr	Leu
	130					135					140				
Lys	Cys	Leu	Glu	Glu	Leu	Ser	Ala	Gly	Asn	Asn	Glu	Phe	Leu	Leu	Ala
145					150					155					160
Lys	Thr	Arg	Leu	Glu	Lys	Thr	Leu	Glu	Ser	Arg	Arg	Ser	Glu	Glu	Met

				165				170					175				
Asp	Tyr	Phe	Met	Arg	Met	Phe	Val	Pro	Ser	Phe	His	Leu	Ser	Leu	Asp		
			180					185					190				
Glu	Ile	Ser	Gln	Asp	Ser	Pro	Leu										
		195					200										

<210> 7443

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7443

Arg	Met	Lys	Leu	Asn	Arg	Val	Leu	Ser	Ala	Gly	Arg	Cys	Met	Ser	Leu		
1				5					10					15			
Thr	Arg	Lys	Arg	Arg	Ser	Thr	Gly	Lys	Val	Thr	Leu	Ala	Asp	Val	Ala		
			20					25					30				
Gln	Leu	Ala	Gly	Val	Gly	Thr	Met	Thr	Val	Ser	Arg	Ala	Leu	Arg	Thr		
		35					40					45					
Pro	Glu	Gln	Val	Ser	Asp	Lys	Leu	Arg	Glu	Lys	Ile	Glu	Ala	Ala	Val		
	50					55					60						
Gln	Glu	Leu	Gly	Tyr	Met	Pro	Asn	Leu	Ala	Ala	Ser	Ala	Leu	Ala	Ser		
	65				70					75					80		
Ala	Ser	Ser	Trp	Thr	Ile	Ala	Met	Val	Val	Pro	Asn	Leu	Ser	Glu	Ala		
				85					90					95			
Gly	Cys	Ser	Glu	Met	Phe	Ala	Gly	Leu	Gln	Gln	Val	Leu	Gln	Pro	Ala		
			100				105						110				
Gly	Tyr	Gln	Ile	Met	Leu	Ala	Glu	Ser	Gln	His	Arg	Leu	Glu	Gln	Glu		
		115					120					125					
Glu	Lys	Leu	Leu	Glu	Thr	Leu	Leu	Ala	Ser	Asn	Ile	Ala	Ala	Ala	Ile		
	130					135					140						

145

<210> 7444

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 7444

Leu	Ser	Val	Glu	His	Phe	Asp	Thr	Val	Arg	His	Trp	Leu	Lys	Asn	Ala		
1				5					10					15			
Tyr	Ile	Pro	Val	Met	Glu	Met	Gly	Ala	Met	Arg	Ala	Asp	Pro	Ile	Asp		
			20					25					30				
Met	Asn	Ile	Gly	Ile	Asp	Asn	Val	Ala	Ala	Met	Tyr	Glu	Leu	Thr	Glu		
		35					40					45					
Met	Val	Ile	Gln	Arg	Gly	Tyr	Gln	Asn	Ile	Gly	Val	Leu	Cys	Ala	Asn		
	50					55					60						
Gln	Glu	Gln	Trp	Ile	Phe	Gln	Gln	His	Leu	Gln	Gly	Trp	Tyr	Lys	Ala		
	65				70				75					80			
Met	Leu	Arg	His	His	Leu	Ala	Pro	Asn	Arg	Val	Ile	Asn	Ala	Ala	Met		
			85					90					95				
Pro	Pro	Asn	Phe	Ser	Thr	Gly	Ala	Ala	Gln	Leu	Pro	Glu	Phe	Leu	Leu		
			100				105						110				
Ala	Trp	Pro	Glu	Leu	Asp	Ala	Leu	Val	Cys	Val	Ser	Asp	Glu	Leu	Ala		
		115					120					125					
Cys	Gly	Ala	Leu	Tyr	Glu	Cys	Gln	Arg	Arg	Arg	Ile	Lys	Val	Pro	Asp		
	130					135					140						
Asp	Leu	Ala	Val	Val	Gly	Phe	Gly	Asp	Ser	Asp	Val	Ser	Arg	Val	Cys		
	145				150					155					160		
Gln	Pro	Pro	Leu	Thr	Thr	Met	Ala	Val	Pro	His	Arg	Lys	Ile	Gly	Ile		
				165					170					175			

Glu Ala Gly Lys Ala Leu Leu Glu Arg Leu Asn Asp Gly Asp Trp Arg
 180 185 190
 Asp His Lys Pro Ile Ala Ser Ser Leu Cys Leu Arg Glu Ser Cys
 195 200 205

<210> 7445

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 7445

Arg Phe Phe Ser His Val Ser Ile Ile Gly Thr Ser Met Ser Ser Lys
 1 5 10 15
 Leu Val Leu Val Leu Asn Cys Gly Ser Ser Ser Leu Lys Phe Ala Ile
 20 25 30
 Ile Asp Ala Leu Asn Gly Asp Glu Tyr Leu Ser Gly Leu Ala Glu Cys
 35 40 45
 Phe His Leu Pro Glu Ala Arg Ile Lys Trp Lys Met Asp Gly Ser Lys
 50 55 60
 Gln Glu Ala Ala Leu Gly Ala Gly Ala Ala His Ser Glu Ala Leu Asn
 65 70 75 80
 Phe Ile Val Asn Thr Ile Leu Ala Gln Lys Pro Glu Leu Ser Ala Gln
 85 90 95
 Leu Thr Ala Ile Gly His Arg Ile Val His Gly Gly Glu Lys Tyr Thr
 100 105 110
 Ser Ser Val Val Ile Asp Asp Ser Val Ile Gln Gly Ile Lys Asp Ser
 115 120 125
 Ala Ser Phe Ala Pro Leu His Asn Pro Ala His Leu Ile Gly Ile Ala
 130 135 140
 Glu Ala Leu Lys Ser Phe Pro Ser Leu Lys Asp Lys Asn Val Ala Val
 145 150 155 160
 Phe Asp Thr Ala Phe His Gln Thr Met Pro Glu Glu Ser Tyr Leu Tyr
 165 170 175
 Ala Leu Pro Tyr Ser Leu Tyr Lys Glu His Gly Val Arg Arg Tyr Gly
 180 185 190
 Ala His Gly Thr Ser His Phe Tyr Val Thr Gln Glu Ala Ala Lys Val
 195 200 205
 Leu Asn Lys Pro Val Glu Glu Val Asn Ile Ile Thr Cys His Leu Gly
 210 215 220
 Asn Gly Gly Ser Val Ser Ala Ile Arg Asn Gly Lys Cys Val Asp Thr
 225 230 235 240
 Ser Met Gly Leu Thr Pro Leu Glu Gly Leu Val Met Gly Thr Arg Ser
 245 250 255
 Gly Asp Ile Asp Pro Ala Ile Ile Phe His Leu His Asp Thr Leu Gly
 260 265 270
 Met Ser Val Asp Asp Ile Asn Lys Met Leu Thr Lys Glu Ser Gly Leu
 275 280 285
 Leu Gly Leu Thr Glu Val Thr Ser Asp Cys Arg Tyr Val Glu Asp Asn
 290 295 300
 Tyr Ala Glu Lys Ala Asp Ala Lys Arg Ala Met Asp Val Tyr Cys His
 305 310 315 320
 Arg Leu Ala Lys Tyr Ile Gly Ser Tyr Thr Ala Leu Met Glu Gly Arg
 325 330 335
 Leu Asp Ala Val Ile Phe Thr Gly Gly Ile Gly Glu Asn Ala Ala Met
 340 345 350
 Val Arg Glu Leu Ser Leu Gly Lys Leu Gly Val Leu Gly Phe Glu Val
 355 360 365
 Asp His Glu Arg Asn Leu Ala Arg Phe Gly Lys Ser Gly Phe Ile
 370 375 380
 Asn Lys Glu Gly Thr Arg Pro Ala Ile Val Ile Pro Thr Asn Glu Glu
 385 390 395 400

Leu Val Ile Ala Gln Asp Ala His Arg Leu Thr Ala
405 410

<210> 7446

<211> 715

<212> PRT

<213> Enterobacter cloacae

<400> 7446

Thr	Val	Ser	Arg	Thr	Ile	Met	Leu	Ile	Pro	Thr	Gly	Thr	Ser	Val	Gly
1				5					10					15	
Leu	Thr	Ser	Val	Ser	Leu	Gly	Val	Ile	Arg	Ala	Met	Glu	Arg	Lys	Gly
			20					25					30		
Val	Arg	Leu	Ser	Val	Phe	Lys	Pro	Ile	Ala	Gln	Pro	Arg	Ala	Gly	Gly
		35					40					45			
Asp	Ala	Pro	Asp	Gln	Thr	Thr	Thr	Ile	Val	Arg	Lys	Asn	Ser	Asn	Leu
	50					55					60				
Pro	Ala	Ala	Glu	Pro	Leu	Lys	Met	Ser	His	Val	Glu	Ser	Leu	Leu	Ser
65					70				75						80
Ser	Asn	Gln	Lys	Asp	Val	Leu	Met	Glu	Glu	Ile	Ile	Ala	Asn	Tyr	His
				85					90					95	
Ala	Asn	Ala	Gln	Asp	Ala	Glu	Val	Val	Leu	Val	Glu	Gly	Leu	Val	Pro
			100					105					110		
Thr	Arg	Lys	His	Gln	Phe	Ala	Gln	Ser	Leu	Asn	Phe	Glu	Ile	Ala	Lys
		115					120					125			
Thr	Leu	Asn	Ala	Glu	Ile	Val	Phe	Val	Met	Ser	Gln	Gly	Thr	Asp	Thr
	130					135					140				
Pro	Glu	Gln	Leu	Lys	Glu	Arg	Ile	Glu	Leu	Thr	Arg	Ser	Ser	Phe	Gly
145					150				155						160
Gly	Ala	Lys	Asn	Thr	Ser	Ile	Thr	Gly	Val	Ile	Val	Asn	Lys	Leu	Asn
				165					170					175	
Ala	Pro	Val	Asp	Glu	Gln	Gly	Arg	Thr	Arg	Pro	Asp	Leu	Ser	Glu	Ile
			180					185					190		
Phe	Asp	Asp	Ser	Ser	Lys	Ala	Lys	Val	Ile	Lys	Val	Asp	Pro	Ala	Lys
		195					200					205			
Leu	Gln	Asp	Ser	Ser	Pro	Leu	Pro	Val	Leu	Gly	Ala	Val	Pro	Trp	Ser
	210					215					220				
Phe	Asp	Leu	Ile	Ala	Thr	Arg	Ala	Ile	Asp	Met	Ala	Arg	His	Leu	Asn
225					230				235						240
Ala	Thr	Val	Ile	Asn	Glu	Gly	Asp	Ile	Asn	Thr	Arg	Arg	Val	Lys	Ser
				245					250					255	
Val	Thr	Phe	Cys	Ala	Arg	Ser	Ile	Pro	His	Met	Leu	Glu	His	Phe	Arg
			260					265					270		
Ala	Gly	Ser	Leu	Leu	Val	Thr	Ser	Ala	Asp	Arg	Pro	Asp	Val	Leu	Val
		275					280					285			
Ala	Ala	Cys	Leu	Ala	Ala	Met	Asn	Gly	Val	Glu	Ile	Gly	Ala	Ile	Leu
	290					295					300				
Leu	Thr	Gly	Gly	Tyr	Glu	Met	Asp	Ala	Arg	Ile	Ser	Lys	Leu	Cys	Glu
305					310					315					320
Arg	Ala	Phe	Ala	Thr	Gly	Leu	Pro	Val	Phe	Met	Val	Asn	Thr	Asn	Thr
				325					330					335	
Trp	Gln	Thr	Ser	Leu	Ser	Leu	Gln	Ser	Phe	Asn	Leu	Glu	Val	Pro	Val
			340					345					350		
Asp	Asp	His	Glu	Arg	Ile	Glu	Lys	Val	Gln	Glu	Tyr	Val	Ala	Gly	Tyr
		355					360					365			
Ile	Asn	Ala	Asp	Trp	Ile	Glu	Ser	Leu	Thr	Ala	Thr	Ser	Glu	Arg	Ser
	370					375					380				
Arg	Arg	Leu	Ser	Pro	Pro	Ala	Phe	Arg	Tyr	Gln	Leu	Thr	Glu	Leu	Ala
385					390					395					400
Arg	Lys	Ala	Gly	Lys	Arg	Val	Val	Leu	Pro	Glu	Gly	Asp	Glu	Pro	Arg
				405					410					415	

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Thr Val Lys Ala Ala Ala Ile Cys Ala Glu Arg Gly Ile Ala Thr Cys
      420      425      430
Val Leu Leu Gly Asn Pro Asp Glu Ile Asn Arg Val Ala Ala Ser Gln
      435      440      445
Gly Val Glu Leu Gly Ala Gly Ile Glu Ile Val Asp Pro Glu Val Val
      450      455      460
Arg Glu Ser Tyr Val Ala Arg Leu Val Glu Leu Arg Lys Asn Lys Gly
465      470      475      480
Met Thr Glu Ala Val Ala Arg Glu Gln Leu Glu Asp Asn Val Val Leu
      485      490      495
Gly Thr Leu Met Leu Glu Gln Asp Glu Val Asp Gly Leu Val Ser Gly
      500      505      510
Ala Val His Thr Thr Ala Asn Thr Ile Arg Pro Pro Leu Gln Leu Ile
      515      520      525
Lys Thr Ala Pro Gly Ser Ser Leu Val Ser Ser Val Phe Phe Met Leu
530      535      540
Leu Pro Glu Gln Val Tyr Val Tyr Gly Asp Cys Ala Ile Asn Pro Asp
545      550      555      560
Pro Thr Ala Glu Gln Leu Ala Glu Ile Ala Ile Gln Ser Ala Asp Ser
      565      570      575
Ala Ile Ala Phe Gly Ile Glu Pro Arg Val Ala Met Leu Ser Tyr Ser
      580      585      590
Thr Gly Thr Ser Gly Ala Gly Ser Asp Val Glu Lys Val Arg Glu Ala
595      600      605
Thr Arg Ile Ala Gln Glu Lys Arg Pro Asp Leu Met Ile Asp Gly Pro
610      615      620
Leu Gln Tyr Asp Ala Ala Val Met Ala Asp Val Ala Lys Ser Lys Ala
625      630      635      640
Pro Asn Ser Pro Val Ala Gly Arg Ala Thr Val Phe Ile Phe Pro Asp
      645      650      655
Leu Asn Thr Gly Asn Thr Thr Tyr Lys Ala Val Gln Arg Ser Ala Asp
660      665      670
Leu Ile Ser Ile Gly Pro Met Leu Gln Gly Met Arg Lys Pro Val Asn
675      680      685
Asp Leu Ser Arg Gly Ala Leu Val Asp Asp Ile Val Tyr Thr Ile Ala
690      695      700
Leu Thr Ala Ile Gln Ser Ser Gln Gln Gln
705      710      715

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<210> 7447

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 7447

```

Arg Leu Ile Arg Lys Leu His His Asn Cys Lys Arg Ala Glu Arg Ala
1      5      10      15
Leu Arg Arg Glu Gly Phe Pro Met Val Glu Gln Asn His Leu Ala Ser
20      25      30
Thr Glu Trp Val Asp Ile Val Ser Glu Glu Asn Glu Val Ile Ala Gln
35      40      45
Ala Ser Arg Glu Gln Met Arg Ala Glu Arg Leu Arg His Arg Ala Thr
50      55      60
Tyr Ile Val Val His Asp Gly Met Gly Lys Ile Leu Val Gln Arg Arg
65      70      75      80
Thr Asp Thr Lys Asp Phe Leu Pro Gly Met Leu Asp Ala Thr Ala Gly
85      90      95
Gly Val Val Gln Ala Asp Glu Val Leu Leu Asp Ser Ala Arg Arg Glu
100      105      110
Ala Glu Glu Glu Leu Gly Ile Ala Gly Val Pro Phe Ala Glu His Gly
115      120      125

```


Gln Phe Tyr Phe Glu Asp Glu His Cys Arg Val Trp Gly Gly Leu Phe
 130 135 140
 Ser Cys Val Ser His Gly Pro Phe Ala Leu Gln Glu Glu Val Ser
 145 150 155 160
 Glu Val Ser Trp Met Thr Pro Glu Glu Ile Thr Ala Arg Cys Asp Glu
 165 170 175
 Phe Thr Pro Asp Ser Leu Lys Ala Leu Ala Leu Trp Met Thr Arg Asn
 180 185 190
 Ala Lys Asn Glu Ser Ala Lys Pro Glu Asn Lys Ala Glu Lys Glu Glu
 195 200 205
 Glu Ala Glu
 210

<210> 7448

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 7448

Trp Gly Val Leu Tyr Ser Lys Lys Gly Ile Thr Met Lys Ile Met Ala
 1 5 10 15
 Ile Cys Gly Ser Gly Leu Gly Ser Ser Phe Met Val Glu Met Asn Ile
 20 25 30
 Lys Lys Val Leu Lys Lys Leu Glu Ile Glu Ala Glu Val Glu His Ser
 35 40 45
 Asp Leu Ser Ser Ala Thr Pro Gly Ala Ala Asp Leu Phe Val Met Ala
 50 55 60
 Lys Asp Ile Ala Ala Ser Ala Ser Val Pro Glu Ser Gln Leu Val Val
 65 70 75 80
 Ile Asn Asn Ile Ile Asp Ile Asn Glu Leu Glu Ala Gln Leu Arg Ala
 85 90 95
 Trp Phe Glu Arg Gln
 100

<210> 7449

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 7449

Gly Glu Val Asp Met Phe Ile Leu Glu Thr Leu Asn Phe Val Val Asp
 1 5 10 15
 Ile Leu Lys Val Pro Ser Val Leu Val Gly Leu Ile Ala Leu Ile Gly
 20 25 30
 Leu Val Ala Gln Lys Lys Ala Phe Ser Asp Val Val Lys Gly Thr Ile
 35 40 45
 Lys Thr Ile Leu Gly Phe Ile Val Leu Gly Gly Gly Ala Thr Val Leu
 50 55 60
 Val Gly Ser Leu Asn Pro Leu Gly Gly Met Phe Glu His Ala Phe Asn
 65 70 75 80
 Ile Gln Gly Ile Ile Pro Asn Asn Glu Ala Ile Val Ser Ile Ala Leu
 85 90 95
 Glu Lys Tyr Gly Ala Ser Thr Ala Leu Ile Met Ala Phe Gly Met Val
 100 105 110
 Ala Asn Ile Ile Val Ala Arg Phe Thr Arg Leu Lys Tyr Ile Phe Leu
 115 120 125
 Thr Gly His His Thr Phe Tyr Met Ala Cys Met Ile Gly Val Ile Leu
 130 135 140
 Thr Val Ala Gly Phe Glu Gly Val Gly Leu Val Phe Thr Gly Ser Leu
 145 150 155 160
 Ile Leu Gly Leu Ile Met Ala Phe Phe Pro Ala Ile Ala Gln Arg Tyr

165 170 175
 Met Lys Arg Ile Thr Gly Asn Asp Glu Ile Ala Phe Gly His Phe Gly
 180 185 190
 Thr Leu Gly Tyr Val Leu Ser Gly Trp Ile Gly Ser Lys Val Gly Lys
 195 200 205
 Gly Ser Arg Ser Thr Glu Glu Met Asn Leu Pro Lys Asn Leu Ser Phe
 210 215 220
 Leu Arg Asp Ser Ser Ile Ser Ile Ser Leu Thr Met Met Ile Ile Tyr
 225 230 235 240
 Leu Ile Met Ala Val Ser Ala Gly Arg Glu Tyr Val Glu Ala Thr Phe
 245 250 255
 Ser Gly Gly Gln Asn Tyr Leu Val Tyr Ala Ile Ile Met Ala Ile Thr
 260 265 270
 Phe Ala Ala Gly Val Phe Ile Ile Leu Gln Gly Val Arg Leu Ile Leu
 275 280 285
 Ala Glu Ile Val Pro Ala Phe Thr Gly Phe Ser Glu Lys Leu Val Pro
 290 295 300
 Asn Ala Arg Pro Ala Leu Asp Cys Pro Val Val Tyr Pro Tyr Ala Pro
 305 310 315 320
 Asn Ala Val Leu Ile Gly Phe Leu Phe Ser Phe Leu Gly Gly Ile Val
 325 330 335
 Gly Leu Phe Ile Cys Gly Gln Phe Ser Trp Val Leu Ile Leu Pro Gly
 340 345 350
 Val Val Pro His Phe Phe Thr Gly Ala Thr Ala Gly Val Phe Gly Asn
 355 360 365
 Ala Thr Gly Gly Arg Arg Gly Ala Met Ile Gly Ala Phe Ala Asn Gly
 370 375 380
 Leu Leu Ile Thr Phe Leu Pro Val Leu Leu Leu Pro Val Leu Gly Ala
 385 390 395 400
 Ile Gly Phe Ala Asn Thr Thr Phe Ser Asp Ala Asp Phe Gly Ala Val
 405 410 415
 Gly Ile Val Leu Gly Asn Leu Ala Arg Phe Leu Ser Pro Phe Ala Ile
 420 425 430
 Thr Gly Leu Val Val Val Leu Phe Ala Leu Leu Val Ala Tyr Asn Val
 435 440 445
 Phe Ala Lys Asn Lys Pro Ala Ser Gly Asn Ala Gln Glu Asn Pro Gly
 450 455 460
 Ala Lys Ser
 465

<210> 7450

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 7450

Leu Arg Arg Ala Lys Arg Arg Ser Thr Arg Arg Phe Ala Asn Trp Arg
 1 5 10 15
 Leu His Met Ile Lys Val Ala Pro Thr Gly Gln Lys Asp Ala Val Glu
 20 25 30
 Met Arg Lys Val Tyr Ala Gly Phe Val Ala Lys Gln Ile Glu Ala Gly
 35 40 45
 Ser Glu Ile Ile Ala Leu Glu Ala Asp Leu Met Ser Ser Met Ala Met
 50 55 60
 Asp Gly Val Ala Arg Asp Tyr Pro Gln His Val Ile Asn Cys Gly Ile
 65 70 75 80
 Met Glu Ala Asn Val Ile Gly Thr Ala Ala Gly Leu Ser Leu Thr Gly
 85 90 95
 Arg Lys Pro Phe Val His Thr Phe Thr Ala Phe Ala Ser Arg Arg Cys
 100 105 110
 Phe Asp Gln Leu Phe Met Ser Leu Asp Tyr Gln Arg Asn Asn Val Lys

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<210> 7451
<211> 155
<212> PRT
<213> Enterobacter cloacae
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<210> 7452
<211> 226
<212> PRT
<213> Enterobacter cloacae
```

<400> 7452

Cys Leu Thr Glu Val Arg Val Gln Cys Lys Gly Phe Leu Phe Asp Leu
 1 5 10 15
 Asp Gly Thr Leu Val Asp Ser Leu Pro Val Val Glu Arg Ser Trp Cys
 20 25 30
 His Trp Ala Asp Arg His Gly Ile Asp His Gln Asp Val Leu Asn Phe
 35 40 45
 Ile His Gly Lys Gln Ala Ile Thr Ser Leu Arg His Phe Leu Ala Gly
 50 55 60
 Arg Ser Glu Glu Glu Ile Gln Ala Glu Phe Arg Tyr Leu Glu Gln Ile
 65 70 75 80
 Glu Ala Thr Asp Thr Glu Gly Ile Thr Ala Leu Pro Gly Ala Arg Glu
 85 90 95
 Leu Leu Glu His Leu Asn Glu Ala Gln Ile Pro Trp Ala Ile Val Thr
 100 105 110
 Ser Gly Ser Val Pro Val Ala His Ala Arg His Lys Ala Ala Gly Leu
 115 120 125
 Pro Thr Pro Asp Val Phe Ile Thr Ala Glu Arg Val Lys Arg Gly Lys
 130 135 140
 Pro Glu Pro Asp Ala Phe Leu Leu Gly Ala Glu Leu Leu Gly Leu Ala
 145 150 155 160
 Pro Ala Glu Cys Val Val Glu Asp Ala Ala Gly Val Leu Ala
 165 170 175
 Gly Leu Asn Ala Gly Ser His Val Ile Ala Val Asn Val Pro Ala Gly
 180 185 190
 Ser Pro Arg Leu Glu Glu Ala Asp Phe Val Leu Asn Thr Leu Thr Ala
 195 200 205
 Ile Asp Val Ser Lys Ala Ser Asp Gly Val Val Thr Val Ser Leu Lys
 210 215 220
 Met
 225

<210> 7453

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 7453

Gln Gly His Val Val Asn Gly Glu Leu Ile Trp Val Leu Ser Leu Leu
 1 5 10 15
 Leu Ile Ala Ile Ile Leu Phe Ala Thr Gly Lys Val Arg Met Asp Ala
 20 25 30
 Val Ala Leu Phe Val Ile Val Ala Phe Val Leu Ser Gly Thr Leu Ser
 35 40 45
 Leu Pro Glu Ala Phe Ser Gly Phe Ser Asp Pro Asn Val Ile Leu Ile
 50 55 60
 Ala Ala Leu Phe Ile Ile Gly Asp Gly Leu Val Arg Thr Gly Val Ala
 65 70 75 80
 Thr Met Met Gly Ser Trp Leu Val Lys Val Ala Gly Ser Ser Glu Thr
 85 90 95
 Lys Met Leu Ile Tyr Leu Met Leu Thr Val Ala Gly Leu Gly Ala Phe
 100 105 110
 Met Ser Ser Thr Gly Val Val Ala Ile Phe Ile Pro Val Val Leu Ser
 115 120 125
 Val Cys Met Arg Met Gln Ile Ser Pro Ser Arg Leu Met Met Pro Leu
 130 135 140
 Ser Phe Ala Gly Leu Ile Ser Gly Met Met Thr Leu Val Ala Thr Pro
 145 150 155 160
 Pro Asn Leu Val Val Asn Ser Glu Leu Ile Arg Glu Gly Leu Glu Gly
 165 170 175
 Phe Ser Phe Phe Ser Val Thr Pro Ile Gly Leu Val Val Leu Val Met
 180 185 190

Gly	Ile	Ile	Tyr	Met	Leu	Leu	Thr	Arg	Phe	Ala	Leu	Lys	Gly	Glu	Lys
		195					200					205			
Gln	Asp	Lys	Ala	Lys	Glu	Gly	Trp	Lys	Arg	Arg	Ser	Phe	Arg	Asp	Leu
	210					215					220				
Ile	Lys	Glu	Tyr	Arg	Leu	Thr	Gly	Arg	Ala	Arg	Arg	Leu	Ala	Ile	Arg
225					230				235						240
Pro	Gly	Ser	Pro	Met	Val	Gly	Gln	Arg	Leu	Asp	Asp	Leu	Lys	Leu	Arg
				245					250					255	
Glu	Arg	Tyr	Gly	Ala	Asn	Val	Ile	Gly	Val	Glu	Arg	Trp	Arg	Arg	Phe
			260					265					270		
Arg	Arg	Val	Ile	Val	Asn	Val	Asn	Gly	Val	Ser	Glu	Phe	Arg	Ala	Arg
		275					280					285			
Asp	Val	Leu	Leu	Ile	Asp	Met	Ser	Thr	Ala	Asp	Val	Asp	Leu	Arg	Glu
	290					295					300				
Phe	Cys	Ser	Glu	Gln	Leu	Leu	Glu	Pro	Met	Val	Leu	Arg	Gly	Glu	Tyr
305					310				315						320
Phe	Ser	Asp	Gln	Ala	Leu	Asp	Val	Gly	Met	Ala	Glu	Val	Ser	Leu	Ile
			325					330						335	
Pro	Glu	Ser	Glu	Leu	Leu	Gly	Lys	Thr	Val	Arg	Glu	Ile	Gly	Phe	Arg
			340					345					350		
Thr	Arg	Tyr	Gly	Leu	Asn	Val	Val	Gly	Leu	Lys	Arg	Asp	Gly	Val	Ala
		355					360					365			
Leu	Glu	Gly	Ala	Val	Val	Asp	Glu	Pro	Ile	Leu	Leu	Gly	Asp	Ile	Phe
	370					375					380				
Leu	Val	Val	Gly	Asn	Trp	Lys	Leu	Ile	Ser	Gln	Leu	Gly	Gln	Lys	Gly
385					390					395					400
Arg	Asp	Phe	Val	Val	Leu	Asn	Met	Pro	Ile	Glu	Glu	Ser	Asp	Ala	Ser
				405					410					415	
Pro	Ala	His	Ser	Gln	Ala	Pro	His	Ala	Ile	Phe	Cys	Leu	Val	Leu	Met
			420					425					430		
Val	Ala	Leu	Met	Leu	Thr	Asp	Glu	Ile	Pro	Asn	Pro	Val	Ala	Ala	Ile
		435					440					445			
Ile	Ala	Cys	Leu	Leu	Met	Gly	Lys	Phe	Arg	Cys	Ile	Asp	Ala	Glu	Ser
	450					455					460				
Ala	Tyr	Lys	Ala	Ile	His	Trp	Pro	Ser	Ile	Ile	Leu	Ile	Val	Gly	Met
465					470				475						480
Met	Pro	Phe	Ala	Leu	Ala	Leu	Gln	Lys	Thr	Gly	Gly	Val	Asp	Leu	Ile
			485						490					495	
Val	Lys	Gly	Leu	Met	Asp	Ala	Gly	Gly	Tyr	Gly	Pro	Tyr	Leu	Met	
			500					505				510			
Met	Val	Cys	Leu	Phe	Val	Met	Cys	Ala	Thr	Ile	Gly	Leu	Phe	Ile	Ser
		515				520					525				
Asn	Thr	Ala	Thr	Ala	Val	Leu	Met	Ala	Pro	Ile	Ala	Leu	Ala	Met	Ala
	530					535					540				
Lys	Ser	Met	Gly	Val	Ser	Pro	Tyr	Pro	Phe	Ala	Met	Met	Val	Ala	Met
545					550				555						560
Ala	Ala	Ser	Ala	Ala	Phe	Met	Thr	Pro	Val	Ser	Ser	Pro	Val	Asn	Thr
			565						570					575	
Leu	Val	Leu	Gly	Pro	Gly	Asn	Tyr	Arg	Phe	Ser	Asp	Phe	Val	Lys	Leu
			580					585					590		
Gly	Val	Pro	Phe	Thr	Val	Leu	Val	Met	Val	Val	Cys	Val	Val	Leu	Ile
		595					600					605			
Pro	Val	Leu	Phe	Pro	Phe										
	610					615									

<210> 7454

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 7454

```

Lys Asp Met Ile Asn Ala Asn Arg Pro Ile Met Asn Leu Asp Leu Asp
1      5      10
Leu Leu Arg Thr Phe Val Ala Val Ala Asp Leu Asn Thr Phe Ala Ala
20      25      30
Ala Ala Ala Ala Val Cys Arg Thr Gln Ser Ala Val Ser Gln Gln Met
35      40      45
Gln Arg Leu Glu Gln Leu Val Gly Lys Glu Leu Phe Ala Arg His Gly
50      55      60
Arg Asn Lys Leu Leu Thr Glu His Gly Ile Gln Leu Leu Gly Tyr Ala
65      70      75
Arg Lys Ile Leu Arg Phe Asn Asp Glu Ala Cys Met Ser Leu Met Phe
85      90      95
Ser Asn Leu Gln Gly Val Leu Thr Leu Gly Ala Ser Asp Glu Ser Ala
100     105     110
Asp Thr Ile Leu Pro Phe Leu Leu Asn Arg Ile Ser Ser Val Tyr Pro
115     120     125
Lys Leu Ala Leu Asp Val Ser Val Lys Arg Asn Ala Phe Met Val Glu
130     135     140
Met Leu Thr Glu Asn Glu Val Asp Leu Val Val Thr Thr His Arg Pro
145     150     155
Gly Gln Phe Asp Ser Leu Thr Leu Arg Thr Ser Pro Thr His Trp Tyr
165     170     175
Cys Ala Ala Glu Tyr Val Leu Gln Lys Gly Glu Pro Ile Pro Leu Val
180     185     190
Leu Leu Asp Asp Pro Ser Pro Phe Arg Asp Met Val Leu Ala Ala Leu
195     200     205
Asn Glu Ala Ser Ile Pro Trp Arg Leu Ala Tyr Val Ala Ser Thr Leu
210     215     220
Pro Ala Val Arg Ala Ala Val Lys Ala Gly Leu Gly Val Thr Ala Arg
225     230     235
Pro Val Glu Met Met Ser Pro Asp Leu Arg Val Leu Gly Gln Ser Glu
245     250     255
Gly Leu Pro Ser Leu Pro Asp Thr Glu Tyr Leu Leu Cys His Asn Ala
260     265     270
Ala Ser Asn Asn Glu Leu Ala Lys Val Val Phe Glu Ala Met Glu Asn
275     280     285
Tyr His Asn Pro Trp Gln Tyr Ala Ala Val
290     295

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<210> 7455

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7455

```

Leu Met Lys Leu Met Phe Ala Ser Asp Ile His Gly Ser Leu Pro Ala
1      5      10
Thr Glu Arg Val Leu Ser Leu Phe Ala Gln Ser Gly Ala Gln Trp Leu
20      25      30
Val Ile Leu Gly Asp Val Leu Asn His Gly Pro Arg Asn Ala Leu Pro
35      40      45
Glu Gly Tyr Ala Pro Ala Gln Val Ala Glu Lys Leu Asn His Phe Ala
50      55      60
Ser Arg Ile Ile Ala Val Arg Gly Asn Cys Asp Ser Glu Val Asp Gln
65      70      75
Met Leu Leu His Phe Pro Ile Thr Ala Pro Trp Gln Gln Val Leu Met
85      90      95
Glu Asn Ser Arg Leu Phe Leu Thr His Gly His Leu Phe Gly Pro Asp
100     105     110
Asn Leu Pro Ser Leu Ala Ala Gly Asp Val Leu Val Tyr Gly His Thr
115     120     125

```

His Ile Pro Val Ala Glu Lys Arg Gly Ala Phe Tyr His Phe Asn Pro
 130 135 140
 Gly Ser Val Ser Ile Pro Lys Gly Gly Asn Pro Ala Ser Tyr Gly Met
 145 150 155 160
 Tyr Glu Asp Gly Thr Leu Ser Val Ile Ala Leu Asn Asp Gln Gln Val
 165 170 175
 Ile Ala Gln Ile Ala Ile Asn Pro
 180 185

<210> 7456

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7456

Lys Met Leu Lys Lys Trp Ile Tyr Asp Thr Thr Ile Ile Leu Gln Asp
 1 5 10 15
 Ser Val Glu Ser Trp Pro Gln Ala Leu Glu Leu Cys Ala Lys Pro Leu
 20 25 30
 Leu Asp Leu Gln Val Ile Ala Pro Glu Tyr Val Thr Ala Ile Ile Glu
 35 40 45
 Lys His Thr Leu Gly Pro Tyr Tyr Val Leu Ala Pro Gly Leu Ala
 50 55 60
 Met Pro His Ala Arg Pro Glu Glu Gly Ala Lys Gly Leu Gly Leu Ser
 65 70 75 80
 Leu Leu Lys Leu Lys Gln Gly Val Ser Phe Gly Ala Gly Glu Phe Asp
 85 90 95
 Pro Val Asp Val Ile Val Met Leu Ala Ala Pro Asp Lys His Ser His
 100 105 110
 Ile Glu Met Ile Ser Ala Leu Ala Glu Leu Phe Ser Ser Asp Glu Asp
 115 120 125
 Met Ala Glu Leu His Arg Ala Asn Thr Leu Glu Glu Ile Lys Thr Ile
 130 135 140
 Ile Asp Arg Phe
 145

<210> 7457

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7457

Arg Ala Gly Lys Pro Arg Ser Gln Ile Met Asn Glu Asn Glu Ile Thr
 1 5 10 15
 Glu Leu Ala Arg Gln Ile Arg Leu Glu Thr Leu Lys Ser Leu Thr Gln
 20 25 30
 Leu Gly Phe Gly His Tyr Gly Gly Ser Met Ser Val Val Glu Thr Leu
 35 40 45
 Ala Val Leu Tyr Gly Ala Val Met Lys Ile Asp Pro Ala Asp Pro Asp
 50 55 60
 Trp Pro Glu Arg Asp Tyr Phe Val Leu Ser Lys Gly His Ala Gly Pro
 65 70 75 80
 Ala Leu Tyr Ser Thr Leu Ala Ile Lys Gly Tyr Phe Pro Ile Asp Glu
 85 90 95
 Leu Ser Thr Leu Asn Gln Asn Gly Thr Arg Leu Pro Ser His Pro Asp
 100 105 110
 Arg Leu Lys Thr Arg Gly Val Asp Ala Thr Thr Gly Ser Leu Gly Gln
 115 120 125
 Gly Ile Ser Ile Ala Gly Gly Met Ala Leu Ser His Lys Leu Ala Gly
 130 135 140
 Arg Pro Asn Arg Val Phe Cys Ile Val Gly Asp Gly Glu Leu Asn Glu

145					150					155				160
Gly	Gln	Cys	Trp	Glu	Ala	Phe	Gln	Phe	Ile	Ala	His	His	Arg	Leu
				165					170					Asn
Asn	Leu	Thr	Val	Phe	Val	Asp	Trp	Asn	Lys	Gln	Gln	Leu	Asp	Gly
			180					185					190	Glu
Leu	Asp	Glu	Ile	Ile	Ser	Ala	Phe	Asp	Leu	Glu	Gly	Lys	Phe	Arg
		195					200					205		Ala
Phe	Gly	Phe	Asp	Val	Val	Thr	Val	Lys	Gly	Asp	Asp	Ile	Pro	Ala
	210					215					220			Leu
Leu	Glu	Val	Thr	Ala	Pro	Ile	Pro	Ala	Ala	Asp	Ala	Arg	Pro	Arg
225					230					235				Val
Val	Ile	Leu	Asp	Ser	Ile	Lys	Gly	Gln	Gly	Val	Pro	Tyr	Leu	Glu
				245				250						Gln
Leu	Ser	Asn	Ser	His	His	Leu	Arg	Leu	Thr	Glu	Glu	Ser	Lys	Ala
		260						265					270	Ala
Leu	Asn	Glu	Thr	Ile	Arg	Gln	Leu	Glu	Ala	Ser	His	Asp		
		275					280					285		

<210> 7458

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 7458

Gln	Ser	Val	Thr	Val	Ser	Phe	Phe	Tyr	Ser	Ala	Met	Arg	Tyr	Arg	Ser
1				5				10						15	
Arg	Lys	Met	Glu	Met	Thr	His	Ala	Gln	Arg	Leu	Ile	Leu	Ser	Asn	Gln
		20						25					30		
Tyr	Lys	Met	Met	Thr	Met	Leu	Asp	Pro	Asp	Asn	Ala	Ala	Arg	Tyr	Ser
	35						40					45			
Arg	Leu	Gln	Thr	Ile	Val	Glu	Arg	Gly	Phe	Gly	Leu	Gln	Met	Arg	Glu
	50					55					60				
Leu	Asp	Arg	Glu	Phe	Gly	Glu	Leu	Lys	Glu	Glu	Thr	Cys	Arg	Ile	Val
65				70					75					80	
Ile	Asp	Ile	Met	Glu	Met	Tyr	His	Ala	Leu	His	Val	Ser	Trp	Thr	Asn
			85					90						95	
Leu	Lys	Asp	Gln	Gln	Thr	Ile	Asp	Glu	Arg	Arg	Val	Thr	Phe	Leu	Gly
		100						105					110		
Phe	Asp	Ala	Ala	Thr	Glu	Ala	Arg	Tyr	Leu	Ser	Tyr	Val	Arg	Phe	Met
	115						120					125			
Val	Asn	Thr	Glu	Gly	Arg	Tyr	Thr	His	Phe	Asp	Ala	Gly	Thr	His	Gly
	130					135					140				
Phe	Asn	Ala	Gln	Thr	Pro	Met	Trp	Asp	Lys	Tyr	Gln	Arg	Met	Leu	Ser
145					150				155					160	
Ala	Trp	His	Ala	Cys	Pro	Arg	Gln	Tyr	His	Leu	Ser	Ser	Asn	Glu	Ile
			165					170						175	
Gln	Gln	Ile	Ile	Asn	Ala										
			180												

<210> 7459

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 7459

Pro	Val	Lys	Gly	Ile	Thr	Gly	Ala	Val	Leu	Arg	Leu	Ile	Val	Leu	Phe
1				5				10						15	
Thr	Asp	Ser	Val	Asp	Leu	Asp	Ala	Ala	Phe	Leu	Ser	Ala	Asp	Gln	Gly
			20				25						30		
Cys	Ser	Gly	Ala	Tyr	Gly	Leu	Leu	Leu	Leu	Asn	Asn	Ala	Ser	Ala	Thr
		35					40					45			

Gly Glu Gln Tyr Arg Tyr Arg Gln Ala Lys Asn His Ile Phe His Arg
 50 55 60
 Gly Tyr Ile Pro Gly His Ser
 65 70

<210> 7460

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 7460

Ile Val Leu Lys Gln Val Pro Gly Asn Ala Leu Thr Gly Pro Thr Lys
 1 5 10 15
 Cys Pro Ala Leu Thr Asp Ala Ala Ser Trp Gln Met Gln Tyr Gly Gly
 20 25 30
 Tyr Met Thr Trp Phe Ile Asp Arg Arg Leu Asn Gly Lys Asn Lys Ser
 35 40 45
 Thr Val Asn Arg Gln Arg Phe Leu Arg Arg Tyr Lys Ala Gln Ile Lys
 50 55 60
 Gln Ser Ile Ser Glu Ala Ile Asn Lys Arg Ser Val Thr Asp Val Asp
 65 70 75 80
 Ser Gly Glu Ser Val Ser Ile Pro Asn Asp Asp Ile Ser Glu Pro Met
 85 90 95
 Phe His Gln Gly Arg Gly Gly Leu Arg His Arg Val His Pro Gly Asn
 100 105 110
 Asp His Phe Val Gln Asn Asp Arg Ile Glu Arg Pro Gln Gly Gly Gly
 115 120 125
 Gly Gly Ser Gly Ser Gly Gln Gly Gln Ala Ser Gln Asp Gly Glu Gly
 130 135 140
 Gln Asp Glu Phe Val Phe Gln Ile Ser Lys Asp Glu Tyr Leu Asp Leu
 145 150 155 160
 Leu Phe Glu Asp Leu Ala Leu Pro Asn Leu Arg Lys Asn Gln His Arg
 165 170 175
 Gln Leu Asn Glu Tyr Lys Thr His Arg Ala Gly Tyr Thr Ala Asn Gly
 180 185 190
 Val Pro Ala Asn Ile Ser Val Val Arg Ser Leu Gln Asn Ser Leu Ala
 195 200 205
 Arg Arg Thr Ala Met Thr Ala Gly Lys Arg Arg Glu Leu Arg Glu Leu
 210 215 220
 Glu Thr Ser Leu Lys Val Val Glu Asn Thr Glu Pro Ala Gln Leu Leu
 225 230 235 240
 Glu Glu Glu Arg Leu Arg Lys Glu Ile Ala Glu Leu Arg Ala Lys Ile
 245 250 255
 Asp Arg Val Pro Phe Ile Asp Thr Phe Asp Leu Arg Tyr Lys Asn Tyr
 260 265 270
 Glu Lys Arg Pro Glu Pro Ser Ser Gln Ala Val Met Phe Cys Leu Met
 275 280 285
 Asp Val Ser Gly Ser Met Asp Gln Ala Thr Lys Asp Met Ala Lys Arg
 290 295 300
 Phe Tyr Ile Leu Leu Tyr Leu Phe Leu Ser Arg Thr Tyr Lys Asn Val
 305 310 315 320
 Glu Val Val Tyr Ile Arg His His Thr Gln Ala Lys Glu Val Asp Glu
 325 330 335
 His Glu Phe Phe Tyr Ser Gln Glu Thr Gly Gly Thr Ile Val Ser Ser
 340 345 350
 Ala Leu Lys Leu Met Asp Glu Val Val Lys Glu Arg Tyr Asp Pro Ala
 355 360 365
 Gln Trp Asn Ile Tyr Ala Ala Gln Ala Ser Asp Gly Asp Asn Trp Ala
 370 375 380
 Asp Asp Ser Pro Leu Cys His Glu Ile Leu Ala Lys Lys Ile Leu Pro
 385 390 395 400

Val Val Arg Tyr Tyr Ser Tyr Ile Glu Ile Thr Arg Arg Ala His Gln
 405 410 415
 Thr Leu Trp Arg Glu Tyr Glu His Leu Gln Ala Met Phe Asp Asn Phe
 420 425 430
 Ala Met Gln His Ile Arg Asp Gln Asp Asp Ile Tyr Pro Val Phe Arg
 435 440 445
 Glu Leu Phe Gln Lys Gln Ser Ser Thr Thr Ser Asn
 450 455 460

<210> 7461

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 7461

Val Lys Thr Val Arg Ala Arg Ala His Asn Asn Gly Arg Asn Pro Asn
 1 5 10 15
 Trp Thr Ser Tyr Glu Lys Leu Arg Thr Val Ile Glu Lys Lys Met Phe
 20 25 30
 Ser Asn Thr Glu Glu Leu Leu Pro Val Ile Ser Phe Asn Ala Lys Thr
 35 40 45
 Ser Thr Asp Glu Gln Lys Lys His Asp Asp Phe Val Asp Arg Met Met
 50 55 60
 Glu Lys Gly Tyr Thr Arg Lys Gln Val Arg Leu Leu Cys Glu Trp Tyr
 65 70 75 80
 Leu Arg Val Arg Lys Ser Ser
 85

<210> 7462

<211> 1121

<212> PRT

<213> Enterobacter cloacae

<400> 7462

Arg Ser Val Cys Gly Ser Asn Glu Ser Val Asn Val Met Ala Asp Val
 1 5 10 15
 Ala Ser Leu Ala Val Gly Leu His Leu Asn Ala Ala Asn Phe Lys Ser
 20 25 30
 Gln Leu Met Gly Ala Tyr Gly Asp Ala Glu Asn Ser Ser Lys Arg Phe
 35 40 45
 Asn Arg Asn Ala Gln Glu Asp Ala Lys Arg Thr Asp Glu Ala Tyr Ser
 50 55 60
 Arg Met Gly Lys Thr Ile Ala Gly Val Ala Gly Arg Leu Ala Gly Phe
 65 70 75 80
 Ala Gly Ala Gly Leu Ser Leu Gly Ala Ile Ile Thr Thr Thr Arg Glu
 85 90 95
 Tyr Gly Gln Ala Leu Ser Asp Leu Ser Ala Ile Thr Gly Ala Thr Gly
 100 105 110
 Ala Gln Leu Lys Ser Leu Asp Glu Ala Ala Gln Glu Met Gly Arg Ser
 115 120 125
 Thr Glu Tyr Ser Ala Ser Gln Ala Val Glu Ala Leu Lys Leu Met Ala
 130 135 140
 Ser Ala Lys Pro Glu Leu Leu Gln Thr Ala Asp Gly Leu Thr Glu Ala
 145 150 155 160
 Thr Lys Ser Ala Leu Thr Leu Ala Gln Ala Ala Gly Ser Thr Leu Pro
 165 170 175
 Asp Ala Thr Arg Thr Leu Ala Leu Ser Leu Asn Gln Phe Gly Ala Gly
 180 185 190
 Ala Gln Glu Ala Asp Arg Tyr Ile Asn Val Leu Ala Ala Gly Ala Lys
 195 200 205
 Phe Gly Ala Ser Glu Ile Ala Asp Thr Ala Ala Ala Ile Lys Asn Gly

210	215	220
Gly Val Ala Ala Ala Gln	Ala Gly Val Gly Phe	Glu Thr Leu Asn Ala
225	230	235
Ala Ile Gln Val Leu	Ala Glu Arg Glu Ile	Lys Gly Gly Glu Ala Gly
245	250	255
Thr Ala Leu Arg Asn Val	Ile Leu Ala Leu Glu	Lys Gly Thr Asp Lys
260	265	270
Thr Leu Lys Pro Ser Val	Val Gly Leu Ser Gly	Ala Leu Asp Asn Leu
275	280	285
Ser Lys Lys Asn Leu Ser	Thr Ala Gln Ala Val	Lys Leu Phe Gly Val
290	295	300
Glu Asn Ile Asn Ala Ala	Ser Val Leu Val Asp	Asn Arg Ser Lys Leu
305	310	315
Asn Ala Leu Thr Leu	Ala Leu Thr Gly Thr	Gln Thr Ala His Glu Gln
325	330	335
Ala Ala Ile Arg Val Asn	Asn Leu Asn Gly Asp	Ile Met Gly Leu Thr
340	345	350
Ser Ala Phe Glu Gly Met	Ile Ile Lys Ile Gly	Gln Ser Ser Thr Gly
355	360	365
Pro Leu Arg Ser Gly Ile	Gln Ser Val Thr Asp	Gly Ile Asn Leu Leu
370	375	380
Thr Asp Asn Phe Asn Ala	Val Ala Ser Val Ala	Leu Tyr Thr Leu Ile
385	390	395
Pro Val Leu Ser Thr Lys	Leu Thr Ala Gly Leu	Arg Glu Asn Ile Ser
405	410	415
Ala Trp Gln Gln Asn Gln	Ala Ala Val Lys Ala	Ala Ala Ala Gln
420	425	430
Ala Asp Gly Ala Arg Lys	Thr Leu Glu Ala Thr	Ser Ala Thr Leu Lys
435	440	445
Arg Asn Asp Ala Glu Phe	Gly Tyr Tyr Arg Gln	Leu Glu Lys Thr Ala
450	455	460
Arg Gln His Gly Leu Asn	Val Asn Tyr Gln Gly	Glu Phe Asn Arg Leu
465	470	475
Ile Arg Glu Glu Thr Glu	Gln Thr Asn Leu Ala	Thr Arg Ala Lys Met
485	490	495
Gln Leu Ala Ala Ala Asn	Arg Gln Val Ser Leu	Thr Ala Arg Ala Ala
500	505	510
Ser Val Ala Val Gly Leu	Ala Arg Gly Ala Leu	Ala Leu Val Gly Gly
515	520	525
Pro Phe Gly Ala Ala Met	Leu Ala Gly Ser Ala	Leu Leu Tyr Phe His
530	535	540
Gln Gln Ala Lys Asp Ala	Arg Gln Ser Ala Ile	Asn Leu Lys Asp Ala
545	550	555
Val Ile Glu Thr Thr Ala	Ala Leu Met Gln Met	Ser Asp Lys Gln Leu
565	570	575
Ala Val Lys Gln Ile Asp	Leu Gln Asp Gln Tyr	Glu Asn Gln Val Thr
580	585	590
Gln Arg Asn Gln Leu Ile	Lys Glu Ile Gln Asp	Ala Asp Ser Arg Leu
595	600	605
Asp Ser Leu Gly Gly Phe	Asp Pro Phe Arg Gln	Lys Lys Gly Val Glu
610	615	620
Asp Ser Lys Lys Arg Ala	Glu Ala Asp Leu Glu	Ala Val Asn Lys Gly
625	630	635
Leu Glu Thr Thr Gln Ser	Asn Leu Glu Asn Val	Ser Lys Ala Arg Phe
645	650	655
Leu Val Gln Thr Gly Ile	Ala Asp Gln Ala Lys	Ser Leu Ala Asn Asp
660	665	670
Ile Lys Asn Ile Thr Ala	Gln Thr Ala Lys Ala	Gly Glu Gly Val Thr
675	680	685
Thr Pro Trp Thr Gly Glu	Asp Thr Gln Lys Ala	Arg Lys Glu Thr Val
690	695	700

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Asn Gln Tyr Leu Gln Leu Arg Arg Glu Ile Glu Glu Ala His Ala Thr
705          710          715          720
Ser Leu Gly Lys Ile Asp Leu Gln Glu Lys Ala Ser Gln Glu Lys Leu
          725          730          735
Ile Ala Ala Ala Arg Lys Asn Gly Ala Ser Gln Gln Asp Leu Gln Arg
          740          745          750
Ala Leu Leu Met Asn Ala Glu Asn Tyr Gln Lys Gln Arg Asn Glu Leu
          755          760          765
Ala Glu Gln Tyr Ser Pro Ala Arg Ser Ala Ile Asn Lys Glu Lys Glu
          770          775          780
Ala Ser Gln Glu Leu Lys Ser Leu Leu Asp Ala Arg Leu Leu Thr Glu
785          790          795          800
Lys Glu Tyr Met Ala Ala Arg Val Thr Leu Ser Gln Glu Thr Ser Arg
          805          810          815
Gln Ile Leu Gln Ala Gln Ala Asn Ala Leu Ser Ala Pro Arg Leu Glu
          820          825          830
Leu Ala Gly Asp Val Asp Pro Leu Ala Gln Gln Arg Asn Gln Leu Ala
          835          840          845
Gln Gln Gln Ser Leu Val Glu Thr Tyr Tyr Arg Asn Gly Ala Leu Ser
          850          855          860
Lys Gln Gln Tyr Glu Met Leu Met Gln Lys Ser Ser Lys Asp Ser Ala
865          870          875          880
Asp Ala Gln Tyr Gln Thr Ala Leu Glu Leu Tyr Arg Ser Gln Ser Glu
          885          890          895
Phe Asn Asn Leu Ala Ile Gly Leu Val Glu Ala Thr Arg Glu Arg Thr
          900          905          910
Thr Asn Val Leu Thr Gly Leu Leu Thr Lys Thr Gln Thr Phe Lys Glu
          915          920          925
Gly Val Ile Asn Leu Phe Ser Thr Leu Thr Gln Ser Ile Ile Gln Asn
          930          935          940
Leu Val Asp Met Ala Ala Gln Ala Leu Val Thr Asn Thr Ile Leu Ser
945          950          955          960
Ser Ile Met Gly Val Gly Ser Ser Val Leu Gly Gly Val Gly Gly Ser
          965          970          975
Thr Ala Gly Ser Ser Gly Thr Ala Ile Ala Asp Tyr Gly Ser Asn Phe
          980          985          990
Gln Phe Asn Ala Lys Gly Gly Val Tyr Ser Ser Ser Asp Leu Ser Ala
          995          1000          1005
Tyr Ser Gly Gln Val Val Asp Asn Pro Thr Phe Phe Ala Phe Ala Lys
1010          1015          1020
Gly Ala Gly Val Met Gly Glu Ala Gly Pro Glu Ala Ile Met Pro Leu
1025          1030          1035          1040
Thr Arg Ala Ala Asp Gly Ser Leu Gly Val Arg Ala Val Ser Gly Gly
          1045          1050          1055
Ala Ser Glu Gly Ala Ala Pro Gln Val Phe Ile Thr Ile Asn Gly Asp
          1060          1065          1070
Gly Ser Thr Ala Ser Gln Ser Ser Gly Gly Leu Glu Lys Phe Gly Lys
          1075          1080          1085
Ser Val Gly Asn Phe Val Arg Asp Glu Tyr Arg Lys Leu Ile Gln Ala
1090          1095          1100
Asp Leu Arg Pro Gly Gly Ala Ile Trp Asn Ser Thr Asn Gly Arg Arg
1105          1110          1115          1120

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<210> 7463

<211> 1340

<212> PRT

<213> Enterobacter cloacae

<400> 7463

Pro	Cys	Ile	Val	Cys	Val	Trp	Arg	Gly	Asp	Lys	Tyr	Arg	Arg	Thr	Gly
1				5					10					15	
Leu	Pro	Gly	Ser	Ala	Pro	Leu	Arg	Pro	Pro	Ala	Asn	Arg	Arg	Gly	Asn
			20					25					30		
Tyr	Phe	Arg	Arg	Asp	Leu	Cys	Arg	Arg	Ser	Ala	Val	Asp	Asn	Lys	Pro
		35					40					45			
Phe	Tyr	Lys	Pro	Pro	Ser	Gly	Gly	Phe	Phe	Tyr	Gly	Arg	Asp	Met	Ala
	50					55					60				
Asn	Lys	Ile	Thr	Gly	Arg	Lys	Gly	Gly	Ser	Ser	Ser	Ser	Arg	Thr	Pro
65					70					75					80
Thr	Glu	Gln	Pro	Asp	Asp	Leu	Gln	Ser	Val	Ala	Lys	Ala	Lys	Ile	Leu
				85					90					95	
Val	Ala	Leu	Gly	Glu	Gly	Glu	Phe	Ala	Gly	Gln	Leu	Thr	Gly	Lys	Asp
			100					105					110		
Ile	Tyr	Leu	Asp	Gly	Thr	Ala	Leu	Glu	Asn	Ala	Asp	Gly	Ser	Gln	Asn
		115					120					125			
Phe	Ser	Gly	Val	Thr	Trp	Glu	Phe	Arg	Ser	Gly	Thr	Gln	Ala	Gln	Lys
	130					135					140				
Tyr	Ile	Gln	Gly	Ile	Pro	Gly	Thr	Glu	Asn	Glu	Ile	Ser	Val	Gly	Thr
145					150					155					160
Glu	Val	Thr	Ser	Ala	Thr	Ala	Trp	Thr	Arg	Thr	Phe	Thr	Asn	Thr	Gln
				165					170					175	
Leu	Ser	Ala	Val	Arg	Leu	Arg	Leu	Lys	Trp	Pro	Ser	Leu	Phe	Lys	Gln
			180					185					190		
Glu	Asp	Asp	Gly	Asp	Leu	Val	Gly	Tyr	Ser	Val	Asn	Tyr	Ala	Ile	Asp
		195					200				205				
Leu	Gln	Thr	Asp	Gly	Gly	Thr	Trp	Gln	Thr	Val	Leu	Asn	Thr	Ser	Val
	210					215					220				
Thr	Gly	Lys	Thr	Thr	Ser	Gly	Tyr	Glu	Arg	Ser	His	Arg	Ile	Asp	Leu
225					230					235					240
Pro	Gln	Ala	Gly	Ser	Thr	Trp	Thr	Ile	Arg	Leu	Arg	Lys	Ile	Thr	Ala
				245					250					255	
Asp	Ala	Asn	Ser	Ala	Lys	Ile	Gly	Asp	Thr	Met	Thr	Leu	Gln	Ser	Phe
		260					265						270		
Thr	Glu	Val	Ile	Asp	Ala	Lys	Leu	Arg	Tyr	Pro	Asn	Thr	Ala	Leu	Leu
		275					280					285			
Tyr	Ile	Glu	Phe	Asp	Ser	Ser	Gln	Phe	Asn	Gly	Ser	Ile	Pro	Gln	Ile
	290					295					300				
Ser	Cys	Glu	Pro	Arg	Gly	Arg	Val	Ile	Arg	Val	Pro	Asp	Thr	Tyr	Asp
305					310					315					320
Pro	Glu	Thr	Arg	Ser	Tyr	Ser	Gly	Thr	Trp	Thr	Gly	Ala	Phe	Lys	Trp
				325					330					335	
Ala	Trp	Thr	Asp	Asn	Pro	Ala	Trp	Ile	Phe	Tyr	Asp	Leu	Val	Val	Ser
			340					345					350		
Asp	Arg	Phe	Gly	Leu	Gly	His	Arg	Leu	Thr	Ala	Ala	Asn	Ile	Asp	Lys
		355					360					365			
Trp	Thr	Leu	Tyr	Gln	Val	Ala	Gln	Tyr	Cys	Asp	Gln	Met	Val	Pro	Asp
	370					375					380				
Gly	Lys	Gly	Gly	Asp	Gly	Thr	Glu	Pro	Arg	Tyr	Thr	Cys	Asn	Val	Tyr
385					390					395					400
Ile	Gln	Asp	Arg	Asn	Asp	Ala	Tyr	Thr	Val	Leu	Arg	Asp	Phe	Ala	Ala
				405					410					415	
Ile	Phe	Arg	Gly	Met	Thr	Tyr	Trp	Gly	Gly	Asp	Gln	Ile	Val	Ala	Leu
			420					425					430		
Ala	Asp	Met	Pro	Arg	Asp	Val	Asp	Tyr	Ser	Tyr	Thr	Arg	Ala	Asn	Val
		435					440					445			
Val	Gly	Gly	Arg	Phe	Thr	Tyr	Ser	Ser	Ser	Thr	Thr	Lys	Thr	Arg	Tyr
	450					455					460				
Thr	Thr	Ala	Leu	Val	Ser	Trp	Ser	Asp	Pro	Gly	Asn	Ala	Tyr	Ala	Asp
465					470					475					480
Ala	Met	Glu	Pro	Val	Phe	Glu	Gln	Ala	Leu	Val	Ala	Arg	Tyr	Gly	Phe

				485					490					495			
Asn	Gln	Leu	Glu	Met	Thr	Ala	Ile	Gly	Cys	Thr	Arg	Gln	Ser	Glu	Ala		
			500					505					510				
Asn	Arg	Lys	Gly	Arg	Trp	Gly	Ile	Leu	Thr	Asn	Asn	Lys	Asp	Arg	Val		
		515					520					525					
Val	Ser	Phe	Asp	Val	Gly	Leu	Asp	Gly	Asn	Ile	Pro	Gln	Pro	Gly	Tyr		
		530				535					540						
Ile	Ile	Ala	Val	Ala	Asp	Glu	Leu	Leu	Ser	Gly	Lys	Val	Met	Gly	Gly		
545					550					555					560		
Arg	Ile	Ser	Ala	Val	Asn	Gly	Arg	Val	Ile	Lys	Leu	Asp	Arg	Val	Ala		
				565					570					575			
Asp	Ala	Ala	Ala	Gly	Asp	Arg	Leu	Ile	Leu	Asn	Leu	Pro	Ser	Gly	Ala		
			580					585					590				
Ser	Gln	Ser	Arg	Thr	Ile	Gln	Ala	Val	Asn	Gly	Glu	Ser	Val	Thr	Val		
		595					600					605					
Thr	Thr	Ala	Tyr	Ser	Glu	Thr	Pro	Gln	Ala	Glu	Ala	Val	Trp	Val	Val		
		610				615					620						
Glu	Ser	Asn	Glu	Leu	Tyr	Ala	Gln	Gln	Tyr	Arg	Val	Val	Ser	Val	Ala		
625					630					635					640		
Asp	Asn	Asp	Asp	Gly	Thr	Phe	Thr	Ile	Thr	Gly	Ala	Trp	His	Asp	Pro		
				645					650					655			
Asp	Lys	Tyr	Ala	Arg	Ile	Asp	Thr	Gly	Ala	Ile	Ile	Asp	Gln	Arg	Pro		
			660					665					670				
Val	Ser	Val	Ile	Pro	Pro	Gly	Asn	Gln	Thr	Pro	Pro	Ala	Asn	Ile	Val		
		675					680					685					
Ile	Ser	Ser	Phe	Ser	Val	Val	Gln	Gln	Asn	Ile	Ser	Val	Glu	Thr	Met		
		690				695					700						
Arg	Val	Ser	Trp	Asp	Gln	Ala	Gln	Asn	Ala	Val	Ala	Tyr	Glu	Ala	Gln		
705					710					715					720		
Trp	Arg	Arg	Asn	Asp	Gly	Asn	Trp	Val	Asn	Val	Pro	Arg	Ser	Ser	Thr		
			725						730					735			
Thr	Ser	Tyr	Asp	Val	Pro	Gly	Ile	Tyr	Ala	Gly	Arg	Tyr	Leu	Val	Arg		
			740					745					750				
Val	Arg	Ala	Ile	Asn	Ala	Ala	Glu	Ile	Ser	Ser	Gly	Trp	Gly	Tyr	Ser		
		755					760					765					
Glu	Glu	Lys	Thr	Leu	Thr	Gly	Lys	Val	Gly	Asn	Pro	Pro	Lys	Pro	Val		
		770				775					780						
Gly	Phe	Ile	Ala	Ser	Asp	Asn	Val	Val	Phe	Gly	Ile	Glu	Leu	Ser	Trp		
785					790					795					800		
Gly	Phe	Pro	Ala	Asn	Thr	Asp	Asp	Thr	Leu	Lys	Thr	Glu	Ile	Gln	Tyr		
				805					810					815			
Ser	Leu	Thr	Gly	Arg	Glu	Asp	Asp	Ala	Met	Leu	Leu	Ala	Asp	Val	Pro		
			820					825					830				
Tyr	Pro	Gln	Arg	Lys	Tyr	Gln	Gln	Met	Gly	Leu	Lys	Ala	Gly	Gln	Thr		
		835															

Thr Asp Val Thr Arg Leu Glu Ala Lys Thr Ala Gln Asn Glu Ala Gly
 980 985 990
 Val Thr Glu Val Arg Gln Ala Leu Ser Asp Glu Ala Gln Ala Arg Ala
 995 1000 1005
 Thr Ala Val Asp Gln Leu Thr Ala Ser Thr Gln Val Ile Ser Asp Lys
 1010 1015 1020
 Ala Asp Ser Ala Ser Ser Lys Ala Asp Ala Ala Ser Gly Lys Ala Asp
 1025 1030 1035 1040
 Ala Ala Glu Gln Ala Ser Ser Gln Asn Thr Ala Asp Ile Thr Thr Leu
 1045 1050 1055
 Arg Gln Val Val Thr Asp Thr Thr Ser Ser Met Ala Ser Arg Leu Glu
 1060 1065 1070
 Glu Leu Gly Ala Arg Thr Asp Thr Ala Ser Gly Gly Ile Gln Asn Asn
 1075 1080 1085
 Ala Ile Ala Leu Ile Thr Ser Thr Leu Ala Gln Val Asp Gln Arg Val
 1090 1095 1100
 Arg Leu Ser Ala Gln Tyr Gly Asp Ser Lys Ala Ser Ile Asp Arg Ile
 1105 1110 1115 1120
 Asp Asn Val Met Ala Ser Asp Arg Glu Ala Thr Ala Arg Ser Leu Leu
 1125 1130 1135
 Ser Leu Gln Thr Asp Val Asn Gly Asn Lys Ala Ser Ile Asn Ser Leu
 1140 1145 1150
 Asn Gln Thr Phe Ser Asp Tyr Gln Gln Ala Thr Ala Thr Gln Ile Asn
 1155 1160 1165
 Gly Ile Thr Ala Thr Ile Asn Gly His Thr Ser Ala Ile Thr Thr Asn
 1170 1175 1180
 Ala Gln Ala Ile Ala Asn Val Asn Gly Asp Leu Lys Ala Met Tyr Ser
 1185 1190 1195 1200
 Ile Lys Val Gly Leu Ala Ser Asn Gly Gln Tyr Tyr Ala Ala Gly Met
 1205 1210 1215
 Gly Ile Gly Val Glu Asn Thr Pro Ser Gly Met Gln Ser Gln Val Ile
 1220 1225 1230
 Phe Val Ala Asp Arg Phe Ala Val Thr His Gln Ala Gly Ala Thr Val
 1235 1240 1245
 Thr Leu Pro Phe Val Ile Gln Asn Gly Gln Val Phe Ile Arg Asp Ala
 1250 1255 1260
 Leu Ile Gly Asp Gly Thr Ile Asn Asn Asn Lys Ile Gly Lys Tyr Ile
 1265 1270 1275 1280
 Gln Ser Asn Asn Phe Val Ala Gly Ser Val Gly Trp Arg Leu Asp Lys
 1285 1290 1295
 Gly Gly Thr Phe Glu Asn Tyr Gly Ser Thr Ala Gly Glu Gly Ala Met
 1300 1305 1310
 Lys Gln Thr Asn Gln Thr Ile Ser Val Lys Asp Ala Asn Asn Val Leu
 1315 1320 1325
 Arg Val Gln Ile Gly Arg Ile Thr Gly Thr Trp
 1330 1335 1340

<210> 7464

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 7464

Thr Met Ser Leu Asn Ala Asp Tyr Gln Lys Leu Glu Ser Gly Asn Asp
 1 5 10 15
 Val Arg Leu Ile Glu Val Asp Gly Ser Ser Phe Gly Leu Thr Glu Val
 20 25 30
 Leu Arg Phe His Asn Tyr Asn Ile Pro His Thr Glu Glu Glu Ile Val
 35 40 45
 Ala Ala Gly Gly Asp Glu Ala Lys Leu Pro Ala Lys Pro Ile Trp Trp
 50 55 60

Gln Gly Asn Glu Tyr Ser Ala Trp Pro Tyr Gln Leu Glu Gly Leu Glu
 65 70 75 80
 Lys Ser Thr Ser Gly Ser Asn Ala Thr Pro Ser Leu Thr Val Ala Asn
 85 90 95
 Ile Glu Ser Ser Ile Ser Ala Leu Cys Leu Ala Tyr Asp Asp Leu Leu
 100 105 110
 Gln Ala Lys Val Thr Ile His Asp Thr Lys Ala Lys Tyr Leu Asp Ala
 115 120 125
 Lys Asn Phe Ala Gly Gly Asn Pro Thr Ala Asp Pro Thr Gln Glu Lys
 130 135 140
 Leu Gln Val Trp Tyr Ile Asp Gly Lys Thr Thr Glu Leu Ala Gly Glu
 145 150 155 160
 Thr Ile Glu Phe Val Leu Ser Ser Pro Met Asp Leu Gln Gly Gln Met
 165 170 175
 Ile Pro Thr Arg Gln Leu His Ser Leu Cys Thr Trp Cys Ile Arg Asn
 180 185 190
 Lys Tyr Arg Thr Gly Asp Gly Cys Asp Tyr Ala Gly Thr Arg Tyr Phe
 195 200 205
 Asp Lys Asn Asn Asn Pro Val Ser Asp Pro Ser Leu Asp Glu Cys Asn
 210 215 220
 Gly Thr Leu Thr Ala Cys Lys Leu Arg Phe Gly Glu Ser Asn Glu Leu
 225 230 235 240
 Ser Phe Gly Gly Phe Pro Gly Thr Ser Leu Ile Arg Ser
 245 250

<210> 7465

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7465

Lys Val Glu Gly Thr Met Gln Glu Val Met Thr Arg Ile Glu Leu Gly
 1 5 10 15
 Gly Glu Pro Gly Lys Ile Phe Gly Lys Ile His His Arg Leu Ile Asn
 20 25 30
 Lys Val Ser Glu Ala Gly Thr Ala Leu Ala Lys Thr Ile Pro Gly Phe
 35 40 45
 Glu Ser Tyr Met Ile Ser Ser Lys Ser Arg Gly Leu Thr Phe Ala Ile
 50 55 60
 Phe Lys Gly Lys Lys Asn Ile Gly Val Asp Asp Leu Gly Phe Pro Val
 65 70 75 80
 Thr Gly Glu Val Ile Arg Ile Val Pro Val Ile Ile Gly Ser Lys Lys
 85 90 95
 Asp Gly Leu Leu Gln Thr Ile Leu Gly Ala Val Ile Ile Ala Ala Ser
 100 105 110
 Ala Ile Gly Ser Tyr Phe Ala Pro Gly Asn Pro Ile Ser Ala Phe Gly
 115 120 125
 Tyr Lys Phe Gly Ala Ala Met Met Leu Gly Gly Val Val Gln Met Leu
 130 135 140
 Ser Pro Gln Pro Thr Gly Leu Ala Ser Lys Gln Ser Ala Asp Asn Arg
 145 150 155 160
 Ala Ser Tyr Ala Phe Gly Gly Val Thr Asn Thr Ala Ala Gln Gly Tyr
 165 170 175
 Pro Val Pro Leu Leu Tyr Gly Arg Arg Arg Ile Gly Gly Ala Ile Ile
 180 185 190
 Ser Ala Gly Ile Tyr Val Glu Asp Gln Gln
 195 200

<210> 7466

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7466

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Met Ala Glu Tyr Gly Val Leu Leu Thr Thr Thr Ser Gly Glu Val Trp
1      5      10      15
Val Thr Ala Asn Ser Ser Pro Ile Ala Leu Gln Ala Arg Lys Thr Ala
      20      25      30
Ala Leu Gln Gly Thr Ser Gly Phe Asn Thr Lys Val Thr His Thr Phe
      35      40      45
Pro Ala Gly Gln Pro Val Val Ala Phe Val His Cys Thr Val Glu Val
      50      55      60
Glu Ile Thr Gln Thr Ile Ser Gly Asn Thr Ile Thr Ile Asp Phe Leu
65      70      75      80
Arg Pro Asn Ala Thr Gly Thr Ala Tyr Val Tyr Phe Phe Ser Ile Phe
      85      90      95
Pro Gln Thr Lys Pro Asp Tyr Gly Leu Ala Val Trp Asp Ala Ser Gly
      100     105     110
Thr Leu Ile Leu Thr Asn Glu Thr Arg Thr Leu Ser Asp Val Val Thr
      115     120     125
Leu Gly Thr Ala Gly Val Asp Ala Ser Ser Gly Tyr Asn Ile Asn Thr
      130     135     140
Thr Leu Val Gly Lys Trp Ala Cys Met Pro Ala Met Leu Gly Leu Ile
145     150     155     160
Thr Gly Val Ile Ser Ala Gly Gly Gln Pro Gln Pro Tyr Ser Ala Ile
      165     170     175
Tyr Lys Ser Met Ala Lys Leu Glu Gly Ser Asn Thr Arg Ile Phe Ala
      180     185     190
Arg Pro Gln Thr Thr Pro Gly Gly Asn Leu Gln Asn Val Thr Tyr Ser
      195     200     205
Asn Leu Arg Asn Val Ile Met Ala Ile Asn Cys Ala Asn Tyr Asp
      210     215     220

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<210> 7467

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 7467

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Pro Val Leu Asp Ser Glu Lys His Gly Glu Cys Pro Leu Met Gly Phe
1      5      10      15
Ala Ser Pro Ala Thr Asp Tyr Val Glu Arg Gln Leu Ser Pro Ser Val
      20      25      30
Leu Cys Asn Ile Gly Ala Glu Ser Arg Val Leu Glu Thr Asp Val Gly
      35      40      45
Phe Ala Val Ile Glu Pro Ala Thr Lys Lys Arg Pro Gly Asp Val Leu
      50      55      60
Leu Ile Leu Cys Asp Gly His Thr Gln Phe Ala Lys Leu Met Gly Lys
65      70      75      80
Ser Leu Ile Thr Asp Asp Gly Glu Ala Ile Glu Gly Thr Ala Leu Glu
      85      90      95
Glu Val Glu Val Leu Gly Arg Val Thr Phe Phe Ile Asn Arg Ala Leu
      100     105     110
Asp Asp Asp Cys Pro Ala Ile
      115     120

```

<210> 7468

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 7468

Lys Glu Gly Gln Lys Ser Gly Arg Leu Ser Glu Glu Thr Lys Ala Ala
 1 5 10 15
 Val Asp Lys Met Ala Ser Glu Phe Asn Ala Leu Arg Glu Ala Glu Lys
 20 25 30
 Thr Leu Lys Ala Ala Met Gly Glu Leu Glu Gln His Val Ala Gln Met
 35 40 45
 Pro Leu Ala Asn Ala Lys Gln Val Ile Glu Ser Val Gly His Gln Val
 50 55 60
 Ile Ser Ala Glu Ala Leu Lys Thr Phe Ala Ser Ser Val Glu Gly Gly
 65 70 75 80
 Lys Arg Ile Ser Ile Pro Val Lys Ala Ala Leu Thr Ser Val Asp Val
 85 90 95
 Pro Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr Ala
 100 105 110
 Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg Thr
 115 120 125
 Ser Ser Ser Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn Asn
 130 135 140
 Ala Lys Val Val Pro Glu Asn Thr Gln Lys Pro Tyr Ser Glu Ile Glu
 145 150 155 160
 Phe Thr Pro Lys Ile Thr Gly Val Ser Thr Ile Ala His Leu Phe Lys
 165 170 175
 Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr Val
 180 185 190
 Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Ala Glu Glu Gln Glu Ile
 195 200 205
 Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro Gln
 210 215 220
 Ala Ser Ala Phe Asn Pro Ala Phe Thr Val Glu Gln Gln Ser Gly Ile
 225 230 235 240
 Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe Pro
 245 250 255
 Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Arg Ile Glu Leu
 260 265 270
 Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ala Leu
 275 280 285
 Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala Ala
 290 295 300
 Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Gly Ala Gln
 305 310 315 320
 Ile Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn Ala
 325 330 335
 Asp Asp Phe Glu Lys Asn Met Ile Thr Ile Arg Cys Glu Glu Arg Leu
 340 345 350
 Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe Ser
 355 360 365
 Thr Gly Ala Gly Ser
 370

<210> 7469

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 7469

Ser Ser Ser Arg Arg Gly Asn Leu Glu Gln Tyr Lys Arg Glu Ala Val
 1 5 10 15
 Met Ala Leu Glu Thr Phe Asn Trp Ser Pro Arg Val Asn Pro Ser Gln
 20 25 30
 Asp Val Thr Met Arg Thr Arg Glu Ala Gln Phe Gly Asp Gly Tyr Thr
 35 40 45

Gln	Thr	Ser	Gly	Asp	Gly	Leu	Asn	Pro	Arg	Ser	Gln	Ser	Trp	Asp	Leu
50						55					60				
Thr	Phe	Val	Gly	Leu	Glu	Pro	Tyr	Ile	Lys	Ser	Ile	Lys	Asp	Phe	Leu
65					70					75					80
Asp	Arg	His	Glu	Gly	Thr	Lys	Ala	Phe	Ala	Trp	Lys	Pro	Pro	Leu	Glu
				85					90					95	
Asp	Leu	Gly	Leu	Tyr	Arg	Cys	Lys	Gln	Tyr	Lys	Pro	Ser	Pro	Met	Gly
			100					105					110		
Gly	Gly	Asn	Trp	Ser	Leu	Thr	Ala	Thr	Phe	Ile	Gln	Ala	Phe	Lys	Pro
		115					120					125			

<210> 7470

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7470

Ser	Gly	Ala	Asp	Met	Arg	Gln	Lys	Thr	Ile	Asp	Ala	Ile	Met	Ala	His
1				5					10					15	
Ala	Ala	Ala	Glu	Tyr	Pro	Arg	Glu	Cys	Cys	Gly	Val	Val	Ala	Gln	Lys
			20					25					30		
Ser	Arg	Val	Glu	Arg	Tyr	Phe	Pro	Cys	Arg	Asn	Leu	Ala	Ala	Thr	Pro
		35					40					45			
Glu	Asp	Asn	Phe	Val	Leu	Cys	Pro	Glu	Asp	Tyr	Ala	Ala	Ala	Glu	Asp
	50					55					60				
Trp	Gly	Thr	Val	Ile	Ala	Ile	Val	His	Ser	His	Pro	Asp	Ala	Thr	Thr
65				70						75					80
Gln	Pro	Ser	Glu	Leu	Asp	Lys	Ala	Gln	Cys	Asp	Ala	Thr	Leu	Leu	Pro
				85					90					95	
Trp	His	Ile	Val	Ser	Trp	Pro	Glu	Gly	Asp	Leu	Arg	Thr	Ile	Gln	Pro
			100					105					110		
Arg	Gly	Glu	Leu	Pro	Leu	Leu	Glu	Arg	Pro	Phe	Val	Leu	Gly	His	Phe
			115				120					125			
Asp	Cys	Trp	Gly	Leu	Val	Met	Ser	Tyr	Phe	Arg	Gln	Thr	His	Gly	Ile
	130					135					140				
Glu	Leu	His	Asp	Tyr	Arg	Val	Asp	Tyr	Pro	Trp	Trp	Glu	Lys	Asp	Tyr
145					150					155					160
Pro	Asp	Asn	Phe	Tyr	Gln	Asp	Cys	Trp	Tyr	Glu	Cys	Gly	Phe	Arg	Glu
				165					170					175	
Phe	Asp	Gly	Pro	Pro	Lys	Pro	Gly	Asp	Met	Val	Ile	Met	Gln	Val	Gln
			180					185					190		
Ala	Asp	Lys	Trp	Asn	His	Ala	Gly	Ile	Leu	Leu	Glu	Gly	Asn	Met	Leu
			195				200					205			
Leu	His	His	Leu	Tyr	Gly	His	Leu	Ser	Gln	Arg	Val	Pro	Tyr	Gly	Gly
	210					215					220				
Tyr	Trp	Gln	Glu	Arg	Thr	Met	Lys	Ile	Leu	Arg	Tyr	Lys	Ser	Leu	Cys
225					230					235					240

<210> 7471

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7471

Pro	Ala	Val	Ser	Leu	Arg	Met	Gly	Gly	Ala	Val	Cys	Arg	His	Arg	His
1				5					10					15	
Arg	His	Gln	His	Leu	Asn	Val	Phe	Ile	Ser	Leu	Arg	Asn	Ala	Ser	Arg

<213> Enterobacter cloacae

<400> 7472

Cys Phe Thr Leu Trp Arg Leu Glu Met Ala Asn His Arg Gly Gly Ser
 1 5 10 15
 Gly Asn Phe Ala Glu Asp Arg Glu Arg Ala Ser Glu Ala Gly Arg Lys
 20 25 30
 Gly Gly Gln Ser Ser Gly Gly Asn Phe Lys Asn Asp Pro Gln Arg Ala
 35 40 45
 Ser Glu Ala Gly Lys Lys Gly Gly Lys Asn Ser His Gly Ser Asn Lys
 50 55 60

65

<210> 7473

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 7473

Ala Gln Asp Arg Lys Trp Arg Ala Lys Met Thr Gln Gly Ala Val Lys
 1 5 10 15
 Thr Pro Gly Lys Arg Ser Gln Ala Val Ser Ala Lys Lys Gln Ala Ile
 20 25 30
 Leu Ser Ala Ala Leu Glu Thr Phe Ser Gln Phe Gly Ile His Gly Thr
 35 40 45
 Arg Leu Glu Gln Val Ala Glu Gln Ala Gly Val Ser Lys Thr Asn Leu
 50 55 60
 Leu Tyr Tyr Tyr Pro Ser Lys Glu Ala Leu Tyr Val Ala Val Met Gln
 65 70 75 80
 Gln Ile Leu Asp Ile Trp Leu Ala Pro Leu Lys Ala Phe Arg Glu Glu
 85 90 95
 Leu Ala Pro Leu Val Ala Ile Glu Glu Tyr Ile Arg Leu Lys Leu Glu
 100 105 110
 Val Ser Arg Asp Tyr Pro Gln Ala Ser Arg Leu Phe Cys Leu Glu Met
 115 120 125
 Leu Gln Gly Ala Pro Leu Leu Gln Ala Glu Leu Thr Gly Asp Leu Lys
 130 135 140
 Gln Leu Val Asp Asp Lys Ser Ala Ile Ile Ala Gly Trp Val Ala Ser
 145 150 155 160
 Gly Lys Leu Ala Pro Val Asp Pro His Gln Leu Ile Phe Met Ile Trp
 165 170 175
 Ala Ser Thr Gln His Tyr Ala Asp Phe Ala Ala Gln Val Glu Ala Val
 180 185 190
 Thr Gly Lys Thr Leu Gln Asp Glu Ala Phe Phe Gln Ser Thr Leu Glu
 195 200 205
 Asn Val Gln Arg Met Ile Ile Glu Gly Ile Arg Val Arg
 210 215 220

<210> 7474

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7474

Met Trp Phe Ser Met Leu Ala Leu Ala Ser Ala Ser Ile Thr Gly Pro
 1 5 10 15
 Met Ser Val Val Arg Arg Pro Gly Leu Pro Met Arg His Ser Ala Ile
 20 25 30
 Ala Pro Arg Ser Ile Phe Ser Val Trp Ser Ala Thr Ser Ser Cys Lys
 35 40 45

His	Ser	Thr	Arg	Arg	Ala	Glu	Gln	Arg	Trp	Pro	Ala	Leu	Ser	Lys	Ala
50						55					60				
Glu	Ala	Ser	Thr	Ser	Thr	Thr	Cys	Ser	Val	Ser	Ala	Glu	Glu	Ser	
65					70				75					80	
Thr	Ile	Met	Ala	Phe	Met	Pro	Pro	Val	Ser	Ala	Ile	Ser	Gly	Val	Gly
				85					90					95	
Arg	Pro	Cys	Ala	Ser	Arg	Arg	Val	Ala	Met	Leu	Arg	Cys	Ser	Arg	Glu
			100					105					110		
Ala	Thr	Ser	Val	Glu	Pro	Val	Asn	Ile	Thr	Pro	Arg	Thr	Arg	Leu	Ser
		115					120					125			
Glu	Val	Ser	Leu	Ala	Pro	Thr	Val	Ser	Pro	Arg	Pro	Gly	Ser	Ser	Cys
	130					135					140				
Thr	Thr	Pro	Ala	Gly	Thr	Pro	Ala	Ser	Ser	Arg	Met	Leu	Met	Pro	Trp
145					150					155					160
Ala	Ala	Ile	Ser	Gly	Val	Cys	Ser	Ala	Gly	Phe	Ala	Ser	Thr	Leu	Leu
				165					170					175	
Pro	Ala	Ala	Arg	Ala	Ala	Ala	Ile	Trp	Pro	Val	Lys	Ile	Ala	Ser	Gly
			180					185					190		
Lys	Phe	His	Gly	Leu	Ile	His	Thr	Thr	Gly	Pro	Ser	Gly	Arg	Trp	Val
	195						200					205			
Ser	Leu	Ser	Lys	Ser	Ser	Arg	Thr								
	210					215									

<210> 7475

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 7475

Met	Glu	Asn	Ser	Phe	Val	Thr	Gly	Glu	Ser	Lys	Met	Ala	Trp	Leu	Asp
1				5					10					15	
Thr	Leu	Leu	Asp	His	Phe	Ala	His	Tyr	Pro	Thr	His	Leu	Phe	Ala	Leu
			20					25				30			
Leu	Val	Val	Met	Ala	Leu	Ser	Lys	Ser	Thr	Val	Leu	Val	Ser	Ser	Val
		35					40				45				
Leu	Pro	Pro	Ala	Ser	Val	Met	Leu	Met	Ala	Gly	Ile	Ala	Val	Ser	Gln
	50					55				60					
Ser	Ser	Leu	His	Pro	Gly	Met	Thr	Trp	Leu	Ala	Val	Val	Met	Gly	Ala
65					70				75					80	
Thr	Ala	Gly	Ser	Val	Leu	Asn	Tyr	His	Ile	Gly	Gln	Leu	Met	Gly	His
				85				90						95	
Thr	Arg	Leu	Val	Ser	Arg	Leu	Thr	Ala	Lys	His	Ala	Asp	Lys	Ile	Leu
			100					105					110		
Arg	Val	Gln	His	Gln	Leu	Gln	Lys	Asn	Gly	Val	Val	Ala	Leu	Phe	Thr
		115					120					125			
Ser	Arg	Phe	Leu	Ala	Val	Leu	Arg	Tyr	Ile	Val	Pro	Leu	Ala	Ala	Gly
	130					135					140				
Met	Leu	Arg	Met	Ser	Ala	Met	Lys	Val	Tyr	Val	Val	Ser	Leu	Leu	Ser
145					150				155						160
Ala	Cys	Ala	Trp	Ala	Ala	Leu	Tyr	Val	Gly	Ile	Val	Thr	Gly	Ile	Ser
				165					170					175	

Ile

<210> 7476

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 7476

Met Ala Ile Ser Thr Pro Met Leu Val Thr Phe Leu Val Tyr Ile Phe

1				5					10					15	
Gly	Met	Ile	Leu	Ile	Gly	Phe	Leu	Ala	Trp	Arg	Ser	Thr	Lys	Asn	Phe
			20					25					30		
Asp	Asp	Tyr	Ile	Leu	Gly	Gly	Arg	Ser	Leu	Gly	Pro	Met	Val	Thr	Ala
		35					40					45			
Leu	Ser	Ala	Gly	Ala	Ser	Asp	Met	Ser	Gly	Trp	Leu	Leu	Met	Gly	Leu
	50					55					60				
Pro	Gly	Ala	Ile	Phe	Ile	Ser	Gly	Ile	Ser	Glu	Ser	Trp	Ile	Ala	Ile
65					70					75					80
Gly	Leu	Thr	Val	Gly	Ala	Trp	Ile	Asn	Trp	Lys	Leu	Val	Ala	Gly	Arg
				85					90					95	
Leu	Arg	Val	His	Thr	Glu	Ala	Asn	Asn	Ala	Leu	Thr	Leu	Pro	Asp	
			100					105					110		
Tyr	Phe	Thr	Gly	Arg	Phe	Glu	Asp	Asn	Ser	Arg	Ile	Leu	Arg	Ile	Ile
		115					120					125			
Ser	Ala	Val	Val	Ile	Leu	Leu	Phe	Phe	Thr	Ile	Tyr	Cys	Ala	Ser	Gly
	130						135				140				
Ile	Val	Ala	Gly	Ala	Arg	Leu	Phe	Glu	Ser	Thr	Phe	Gly	Met	Ser	Tyr
145					150					155					160
Glu	Thr	Ala	Leu	Trp	Ala	Gly	Ala	Ala	Ala	Thr	Ile	Leu	Tyr	Thr	Phe
				165						170					175
Val	Gly	Gly	Phe	Leu	Ala	Val	Ser	Trp	Thr	Asp	Thr	Val	Gln	Ala	Ser
			180					185					190		
Leu	Met	Ile	Phe	Ala	Leu	Ile	Leu	Thr	Pro	Val	Ile	Val	Ile	Phe	Thr
		195					200					205			
Val	Gly	Gly	Phe	Gly	Glu	Ser	Leu	Glu	Val	Ile	Lys	Gln	Lys	Ser	Ile
	210					215					220				
Glu	Asn	Val	Asp	Met	Leu	Lys	Gly	Leu	Asn	Phe	Val	Ala	Ile	Val	Ser
225					230					235					240
Leu	Met	Gly	Trp	Gly	Leu	Gly	Tyr	Phe	Gly	Gln	Pro	His	Ile	Leu	Ala
				245					250					255	
Arg	Phe	Met	Ala	Ala	Asp	Ser	His	His	Thr	Ile	Val	His	Ala	Arg	Arg
			260					265					270		
Ile	Ser	Met	Thr	Trp	Met	Ile	Leu	Cys	Leu	Ala	Gly	Ala	Cys	Ala	Val
		275					280					285			
Gly	Phe	Phe	Gly	Ile	Ala	Tyr	Phe	Asn	Asn	Asn	Pro	Ala	Gln	Ala	Gly
	290					295					300				
Ala	Val	Asn	Gln	Asn	Ala	Glu	Arg	Val	Phe	Ile	Glu	Leu	Ala	Gln	Ile
305					310					315					320
Leu	Phe	Asn	Pro	Trp	Ile	Ala	Gly	Ile	Leu	Leu	Ser	Ala	Ile	Leu	Ala
				325					330					335	
Ala	Val	Met	Ser	Thr	Leu	Ser	Cys	Gln	Leu	Leu	Val	Cys	Ser	Ser	Ala
		340						345					350		
Ile	Thr	Glu	Asp	Leu	Tyr	Lys	Ala	Phe	Leu	Arg	Lys	Gly	Ala	Ser	Gln
		355					360					365			
Lys	Glu	Leu	Val	Trp	Val	Gly	Arg	Phe	Met	Val	Leu	Leu	Val	Ala	Leu
	370					375					380				
Val	Ala	Ile	Ala	Leu	Ala	Asn	Pro	Glu	Asn	Arg	Val	Leu	Gly	Leu	
385					390				395						400
Val	Ser	Tyr	Ala	Trp	Ala	Gly	Phe	Gly	Ala	Ala	Phe	Gly	Pro	Val	Val
				405					410					415	
Leu	Phe	Ser	Val	Met	Trp	Ser	Arg	Met	Thr	Arg	Asn	Gly	Ala	Leu	Ala
			420					425					430		
Gly	Met	Ile	Ile	Gly	Ala	Val	Thr	Val	Ile	Val	Trp	Lys	Gln	Phe	Ala
		435					440					445			
Trp	Leu	Gly	Leu	Tyr	Glu	Ile	Ile	Pro	Gly	Phe	Ile	Phe	Gly	Ser	Ile
	450					455					460				
Gly	Ile	Val	Val	Phe	Ser	Leu	Leu	Gly	Lys	Ala	Pro	Ser	Ala	Ser	Met
465					470					475					480
Gln	Lys	Arg	Phe	Ala	Glu	Ala	Asp	Ala	His	Tyr	His	Thr	Ala	Pro	Pro
				485					490					495	

Thr Lys Leu Gln Ala Glu
500

<210> 7477

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 7477

Thr	Val	Ile	Lys	Gly	Ile	Ala	His	Tyr	Arg	Ile	Asp	Ser	Ser	Cys	Trp
1				5					10					15	
Cys	Pro	Met	Ser	Val	Ser	Arg	Phe	Thr	Leu	Ser	Ile	Lys	Pro	Gln	Glu
			20					25					30		
Ala	Ile	Leu	Ile	Leu	Ile	Thr	Met	Phe	Trp	Gly	Gly	Thr	Phe	Leu	Ala
		35					40					45			
Val	Gln	Tyr	Ala	Val	Thr	Met	Ser	Asp	Pro	Phe	Phe	Phe	Val	Gly	Leu
	50					55					60				
Arg	Phe	Ala	Thr	Ala	Ala	Val	Ala	Val	Ala	Leu	Ile	Ser	Leu	Lys	Thr
65					70					75					80
Leu	Arg	Gly	Leu	Thr	Leu	Arg	Glu	Leu	Lys	Ala	Gly	Val	Ala	Ile	Gly
				85					90					95	
Val	Ala	Ile	Ala	Met	Gly	Tyr	Ser	Leu	Gln	Thr	Trp	Gly	Leu	Gln	Ser
			100					105					110		
Ile	Ser	Ser	Ser	Lys	Ser	Ala	Phe	Ile	Thr	Ala	Met	Tyr	Val	Pro	Leu
	115					120						125			
Val	Pro	Leu	Leu	Gln	Trp	Leu	Cys	Leu	Gly	Arg	Met	Pro	Gly	Leu	Met
	130					135					140				
Ser	Cys	Ile	Gly	Ile	Val	Leu	Ala	Phe	Ile	Gly	Leu	Ile	Leu	Leu	Ala
145					150					155					160
Gly	Pro	Glu	Asn	Asn	Leu	Leu	Ala	Leu	Gly	Pro	Gly	Glu	Ile	Ile	Thr
			165						170					175	
Leu	Val	Gly	Ala	Val	Ala	Ile	Ala	Ala	Glu	Ile	Ile	Leu	Ile	Ser	Ala
			180					185						190	
Trp	Ala	Gly	Lys	Val	Asp	Val	Lys	Arg	Val	Thr	Val	Val	Gln	Leu	Ala
	195						200					205			
Thr	Ala	Ser	Leu	Val	Ala	Phe	Ala	Thr	Met	Val	Pro	Ala	Gly	Glu	Ser
	210					215					220				
Val	Pro	Pro	Met	Ser	Thr	Gly	Leu	Ile	Val	Val	Ala	Leu	Gly	Leu	Gly
225					230					235					240
Ile	Phe	Ser	Ala	Ile	Ile	Gln	Val	Thr	Met	Asn	Trp	Ala	Gln	Arg	Ser
				245					250					255	
Val	Ser	Pro	Thr	Arg	Ala	Thr	Val	Ile	Tyr	Thr	Gly	Glu	Pro	Val	Trp
			260					265					270		
Ala	Gly	Ile	Phe	Gly	Arg	Leu	Ala	Gly	Glu	Arg	Leu	Pro	Leu	Leu	Ala
	275						280					285			
Leu	Val	Gly	Ala	Ala	Phe	Ile	Ile	Ala	Gly	Val	Leu	Val	Ser	Glu	Leu
	290					295					300				
Lys	Leu	Lys	Lys	Arg	Arg	Lys	Ala	Thr	Ala	Gly	Leu	Ser	Ala	Glu	Gln
305					310					315					320
Arg	Ala	Asp	Ser												
															325

<210> 7478

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 7478

Asp	Val	Leu	Gln	Leu	Ile	Val	Ile	Glu	Ile	Ala	Leu	Ala	Phe	Phe	Phe
1				5					10					15	
Leu	His	Ala	Glu	Ser	Gly	Leu	Phe	Ile	Ile	Lys	Tyr	Val	Ser	Gly	Phe

			20					25				30			
Phe	Glu	Ser	Leu	Leu	Lys	Phe	Ala	Ala	Glu	Gly	Thr	Asn	Phe	Val	Phe
		35					40					45			
Gly	Gly	Met	Gly	Glu	Lys	Gly	Leu	Ala	Phe	Ile	Phe	Leu	Gly	Val	Leu
	50					55					60				
Cys	Pro	Ile	Ile	Phe	Ile	Ser	Ala	Leu	Ile	Gly	Ile	Leu	Gln	His	Trp
65					70					75					80
Arg	Ile	Leu	Pro	Ile	Phe	Ile	Arg	Val	Ile	Gly	Thr	Leu	Leu	Ser	Lys
				85					90					95	
Leu	Asn	Gly	Met	Gly	Lys	Leu	Glu	Ser	Phe	Asn	Ala	Val	Ser	Ser	Leu
		100					105					110			
Ile	Leu	Gly	Gln	Ser	Glu	Asn	Phe	Ile	Ala	Tyr	Lys	Gly	Val	Leu	Gly
	115						120					125			
Asp	Leu	Ser	Ser	Arg	Arg	Leu	Phe	Thr	Met	Ala	Ala	Thr	Ala	Met	Ser
	130					135					140				
Thr	Val	Ser	Leu	Ser	Ile	Val	Gly	Ala	Tyr	Met	Thr	Met	Leu	Asp	Ala
145					150					155					160
Lys	Phe	Val	Val	Ala	Ala	Leu	Ile	Leu	Asn	Met	Phe	Ser	Thr	Phe	Ile
				165					170					175	
Ile	Leu	Ser	Val	Ile	Asn	Pro	Thr	Arg	Pro	Glu	Ala	Glu	Pro	Asp	Ile
		180					185					190			
Lys	Leu	Glu	Lys	Leu	His	Glu	Ser	Gln	Ser	Phe	Phe	Glu	Met	Leu	Gly
	195						200					205			
Glu	Tyr	Ile	Leu	Ala	Gly	Phe	Lys	Val	Ala	Met	Ile	Ile	Leu	Ala	Met
	210				215						220				
Leu	Ile	Gly	Phe	Ile	Ala	Leu	Ile	Ser	Ala	Val	Asn	Ala	Leu	Phe	Ser
225					230					235					240
Ser	Ile	Phe	Gly	Met	Ser	Phe	Gln	Gln	Ile	Leu	Gly	Tyr	Val	Phe	Tyr
			245						250					255	
Pro	Leu	Ala	Trp	Leu	Ile	Gly	Ile	Pro	Leu	Ser	Asp	Ala	Leu	Asn	Ala
		260					265					270			
Gly	Ser	Ile	Met	Ala	Thr	Lys	Leu	Val	Ala	Asn	Glu	Phe	Val	Ala	Met
	275					280						285			
Ile	Glu	Leu	Gln	Lys	Ile	Ala	His	Gln	Met	Ser	Pro	Arg	Gly	Leu	Gly
	290				295						300				
Ile	Leu	Ser	Val	Phe	Leu	Val	Ser	Phe	Ala	Asn	Phe	Ala	Ser	Ile	Gly
305					310					315					320
Ile	Val	Ala	Gly	Ala	Ile	Lys	Gly	Leu	Asn	Glu	Gln	Gln	Gly	Asn	Val
			325						330					335	
Val	Ser	Arg	Phe	Gly	Leu	Arg	Leu	Val	Tyr	Gly	Ala	Thr	Leu	Val	Ser
			340				345						350		
Leu	Leu	Ser	Ala	Ser	Phe	Ala	Gly	Leu	Val	Leu					
		355					360								

<210> 7479

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 7479

Pro	Gly	Gln	Pro	Gln	Pro	Ser	Pro	Pro	Asp	Asp	Pro	Ser	Gly	Glu	Gly
1				5					10					15	
Arg	Leu	Leu	Gly	Gln	Arg	Asn	Gln	Thr	Arg	Pro	Asp	Gly	Arg	Ser	Gly
		20						25				30			
Arg	Leu	Ser	Gly	Leu	Tyr	Pro	Gln	Gly	Leu	His	Arg	Arg	Leu	Leu	Pro
		35				40					45				
Arg	Leu	Arg	Glu	Lys	Thr	Ala	Arg	Arg	Ala	Glu	Pro	Asp	Leu	Ser	Ala
	50					55					60				
Val	Arg	His	Pro	Gln	Arg	Pro	His	Pro	Gly	Gly	Asp	Leu	Gln	Pro	Gly
65				70					75						80
Gly	Ser	Glu	Leu	Leu	Ser	Gly	Pro	Val	Arg	Val	Pro	Val	Ser	Ala	Arg

			85					90		95
His	Gly	Arg	Thr	Ala	Val	Arg	Ala	Gly	Asp	Arg
			100					105		

<210> 7480
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 7480
 Phe Leu Arg Arg Ala Gly Ser Pro Ala Arg Pro Tyr Arg Leu Arg Arg
 1 5 10 15
 Thr Ala Met Pro Lys Ser Val Ile Ile Pro Pro Gly Thr Ser Thr Pro
 20 25 30
 Ile Ala Pro Phe Val Pro Gly Thr Leu Ala Asp Gly Val Val Tyr Val
 35 40 45
 Ser Gly Thr Leu Pro Phe Asp Lys Asp Asn Asn Val Val Phe Ile Asn
 50 55 60
 Asp Pro Lys Gly Gln Thr Arg His Val Leu Glu Thr Ile Lys Thr Val
 65 70 75 80
 Ile Glu Thr Ala Gly Thr Met Glu Asp Val Thr Phe Asn Ser Ile
 85 90 95
 Phe Ile Thr Asp Trp Lys Asn Tyr Ala Ala Ile Asn Glu Ile Tyr Ala
 100 105 110
 Glu Phe Phe Pro Gly Asp Lys Pro Ala Arg Phe Cys Ile Gln Cys Gly
 115 120 125
 Leu Val Lys Pro Glu Ala Leu Val Glu Ile Ala Thr Val Ala His Ile
 130 135 140
 Ala Lys
 145

<210> 7481
 <211> 372
 <212> PRT
 <213> Enterobacter cloacae

<400> 7481
 Leu Pro Leu Arg Asp Thr Val Tyr Ser Ala Glu Pro Arg Thr Trp Gly
 1 5 10 15
 Ser Pro Phe Arg His Ala Leu Ser Cys Ser Pro Leu Arg Asp Phe Ile
 20 25 30
 Ile Gln Arg Glu Phe Thr Met Ser Tyr Ala Ile His Asn Gln Asn Leu
 35 40 45
 Ala Phe Asn Asp Ser Ala Ile Ala Gln Tyr Met Asn Thr Asp Phe Ile
 50 55 60
 Val Ile Asp Ile Ser Leu Cys Val Ala Leu Ala Arg Glu Gln Phe Phe
 65 70 75 80
 Glu Lys Leu Lys Asp Asp Ile Pro Ser His Ile Phe Ile Glu Asp
 85 90 95
 Asn Gly Arg Ile Ala Gly Leu Ile Ala Val Arg Lys Leu Leu Gln Ala
 100 105 110
 Thr Asp Thr Val Gln Pro Val Lys Gly Leu Met Ile Ser Asp Phe Ile
 115 120 125
 Gln Leu Lys Pro Glu Asp Glu Arg Ala Asp Val Ala Gly Leu Leu Ala
 130 135 140
 His Ala Gly Ala Asp Val Val Pro Val Val Thr His Gly Lys Leu Val
 145 150 155 160
 Gly Cys Leu Thr Glu Arg Glu Ile Ala His Leu Leu Glu Asp Asp Val
 165 170 175
 Thr Glu Asp Ala Gln Leu Gln Gly Ala Thr Leu Pro Leu Glu Lys Pro
 180 185 190

Tyr Leu Glu Thr Ser Ala Phe Ser Leu Trp Lys Lys Arg Ser Val Trp
 195 200 205
 Leu Leu Leu Leu Phe Val Ala Glu Ala Tyr Thr Ser Ser Val Ile Gln
 210 215 220
 His Phe Glu Glu Ala Leu Glu Ser Ala Ile Ala Leu Ala Phe Phe Ile
 225 230 235 240
 Pro Leu Leu Ile Gly Thr Gly Gly Asn Ser Gly Thr Gln Ile Thr Ser
 245 250 255
 Thr Leu Val Arg Ala Met Ala Leu Gly Glu Val His Leu Arg Asp Val
 260 265 270
 Gly Arg Val Leu Arg Lys Glu Met Ser Thr Ser Leu Met Ile Ala Ala
 275 280 285
 Thr Leu Gly Leu Ala Gly Cys Val Arg Ala Trp Met Met Gly Ile Gly
 290 295 300
 Met Glu Ile Thr Leu Ile Val Ser Leu Thr Leu Val Cys Ile Thr Leu
 305 310 315 320
 Trp Ser Ala Ile Val Ser Ser Val Ile Pro Met Val Leu Lys Arg Cys
 325 330 335
 Lys Ile Asp Pro Ala Val Val Ser Ala Pro Phe Ile Ala Thr Leu Ile
 340 345 350
 Asp Gly Thr Gly Leu Ile Ile Tyr Phe Lys Ile Ala Gln Tyr Thr Leu
 355 360 365
 Gly Leu Glu
 370

<210> 7482

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7482

Leu Cys Leu Thr Thr Ile Met Asn Phe Leu Phe Ile Ser Asp Asn Tyr
 1 5 10 15
 Tyr Leu Cys His Gly Val Ser Ser Ser Leu Thr Ser Thr His Leu Ile
 20 25 30
 Arg Asp Asp Ala Asp Ile His Asp Leu Asp Gly Val Asp Gln Ala Met
 35 40 45
 Asp Phe Ile Ile Ala Ile Glu Gln Asp Lys Leu Arg Asn Lys Thr Ile
 50 55 60
 Arg Gln Val Lys Lys Val Lys Cys Asp Tyr Ile Val Leu Met His Glu
 65 70 75 80
 Ile Glu Ala Asn Ser Ala Val Arg Ile Asp Asn Ile Ile Tyr Ser Ser
 85 90 95
 Met His Phe Thr Ala His Pro Phe Gln Gln Leu Met Arg Phe Tyr Arg
 100 105 110
 Ala Leu Arg Thr His Ser Phe Thr Arg Arg Glu Tyr Asp Val Leu Lys
 115 120 125
 Leu Phe His Leu Glu Asn His Glu Ile Ala Lys Lys Leu Gln Leu Ser
 130 135 140
 Gln Lys Thr Thr Ser Thr Tyr Arg Val Arg Ile Leu Glu Lys Leu Asn
 145 150 155 160
 Met Arg Ser Lys Asn Ile Leu Ala Met Thr Arg Val Lys Ser Ala Ile
 165 170 175
 Val Asp

<210> 7483

<211> 1364

<212> PRT

<213> Enterobacter cloacae

<400> 7483

Ser	Leu	Thr	Ile	His	Ser	Phe	Ser	Ser	Leu	Gln	Thr	Arg	Ser	His	Leu
1				5					10					15	
Thr	Arg	Leu	His	Lys	Val	Ala	Thr	Trp	Trp	Ile	Phe	His	Ala	Ile	Asn
			20					25					30		
Arg	Thr	Leu	Leu	Gln	Asn	Asn	Arg	Ser	Phe	Gly	Met	Gly	Met	Thr	Thr
		35					40					45			
Met	Gly	Val	Lys	Leu	Asp	Asp	Ala	Thr	Arg	Glu	Arg	Ile	Lys	Thr	Ala
	50					55					60				
Ala	Thr	Arg	Ile	Asp	Arg	Thr	Pro	His	Trp	Leu	Ile	Lys	Gln	Ala	Ile
65					70					75					80
Phe	Asn	Tyr	Leu	Glu	Arg	Leu	Glu	Ser	Glu	Glu	Gly	Leu	Pro	Glu	Leu
			85						90					95	
Pro	Ala	Leu	Leu	Ala	Gly	Ala	Ala	Asn	Glu	Ser	Glu	Glu	Ala	Ala	Thr
			100					105					110		
Ala	Val	Glu	Glu	Asn	His	Gln	Pro	Phe	Leu	Glu	Phe	Ala	Glu	Gln	Ile
		115					120					125			
Leu	Pro	Gln	Ser	Val	Ser	Arg	Ala	Ala	Ile	Thr	Gly	Ala	Tyr	Arg	Arg
	130					135					140				
Ala	Glu	Thr	Asp	Ala	Val	Pro	Met	Leu	Leu	Glu	Gln	Ala	Arg	Leu	Pro
145					150					155					160
Glu	Ala	Val	Ala	Ala	Gln	Ala	His	Ser	Leu	Ala	Tyr	Gln	Leu	Ala	Asp
			165						170					175	
Lys	Leu	Arg	Asn	Gln	Lys	Thr	Ala	Ser	Gly	Arg	Ala	Gly	Met	Val	Gln
			180					185					190		
Gly	Leu	Leu	Gln	Glu	Phe	Ser	Leu	Ser	Ser	Gln	Glu	Gly	Val	Ala	Leu
		195					200					205			
Met	Cys	Leu	Ala	Glu	Ala	Leu	Leu	Arg	Ile	Pro	Asp	Lys	Ala	Thr	Arg
	210					215					220				
Asp	Ala	Leu	Ile	Arg	Asp	Lys	Ile	Ser	Asn	Gly	Asn	Trp	His	Ser	His
225					230					235					240
Ile	Gly	Arg	Ser	Pro	Ser	Leu	Phe	Val	Asn	Ala	Ala	Thr	Trp	Gly	Leu
			245						250					255	
Leu	Phe	Thr	Gly	Lys	Leu	Val	Ser	Thr	His	Asn	Glu	Ala	Asn	Leu	Ser
			260					265					270		
Arg	Ser	Leu	Asn	Arg	Ile	Ile	Gly	Lys	Ser	Gly	Glu	Pro	Leu	Ile	Arg
		275					280					285			
Lys	Gly	Val	Asp	Met	Ala	Met	Arg	Leu	Met	Gly	Glu	Gln	Phe	Val	Thr
	290					295					300				
Gly	Glu	Thr	Ile	Ala	Glu	Ala	Leu	Ala	Asn	Ala	Arg	Lys	Leu	Glu	Asp
305					310					315					320
Lys	Gly	Phe	Arg	Tyr	Ser	Tyr	Asp	Met	Leu	Gly	Glu	Ala	Ala	Leu	Thr
			325					330						335	
Ala	Ala	Asp	Ala	Gln	Ala	Tyr	Met	Val	Ser	Tyr	Gln	Gln	Ala	Ile	His
		340						345					350		
Ala	Ile	Gly	Lys	Ala	Ser	Asn	Gly	Arg	Gly	Ile	Tyr	Glu	Gly	Pro	Gly
		355					360					365			
Ile	Ser	Ile	Lys	Leu	Ser	Ala	Leu	His	Pro	Arg	Tyr	Ser	Arg	Ala	Gln
	370					375					380				
Tyr	Asp	Arg	Val	Met	Glu	Glu	Leu	Tyr	Pro	Arg	Leu	Lys	Ser	Leu	Thr
385					390					395					400
Leu	Leu	Ala	Arg	Gln	Tyr	Asp	Ile	Gly	Ile	Asn	Ile	Asp	Ala	Glu	Asp
			405						410					415	
Ala	Asp	Arg	Leu	Glu	Ile	Ser	Leu	Asp	Leu	Leu	Glu	Lys	Leu	Cys	Phe
		420						425					430		
Glu	Pro	Glu	Leu	Ala	Gly	Trp	Asn	Gly	Ile	Gly	Phe	Val	Ile	Gln	Ala
		435					440					445			
Tyr	Gln	Lys	Arg	Cys	Pro	Phe	Val	Ile	Asp	Tyr	Leu	Ile	Asp	Leu	Ala
	450					455					460				
Ser	Arg	Ser	Arg	Arg	Arg	Leu	Met	Ile	Arg	Leu	Val	Lys	Gly	Ala	Tyr
465					470					475					480

Trp	Asp	Ser	Glu	Ile	Lys	Arg	Ala	Gln	Met	Glu	Gly	Leu	Glu	Gly	Tyr
				485					490					495	
Pro	Val	Tyr	Thr	Arg	Lys	Val	Tyr	Thr	Asp	Val	Ser	Tyr	Leu	Ala	Cys
			500					505					510		
Ala	Lys	Lys	Leu	Leu	Gly	Val	Pro	Asn	Leu	Ile	Tyr	Pro	Gln	Phe	Ala
		515					520					525			
Thr	His	Asn	Ala	His	Thr	Leu	Ala	Ala	Ile	Tyr	Ser	Leu	Ala	Gly	Gln
	530					535					540				
Asn	Tyr	Tyr	Pro	Gly	Gln	Tyr	Glu	Phe	Gln	Cys	Leu	His	Gly	Met	Gly
545				550						555					560
Glu	Pro	Leu	Tyr	Glu	Gln	Val	Thr	Gly	Lys	Val	Ala	Asp	Gly	Lys	Leu
			565					570						575	
Asn	Arg	Pro	Cys	Arg	Ile	Tyr	Ala	Pro	Val	Gly	Thr	His	Glu	Thr	Leu
			580					585					590		
Leu	Ala	Tyr	Leu	Val	Arg	Arg	Leu	Leu	Glu	Asn	Gly	Ala	Asn	Thr	Ser
		595					600					605			
Phe	Val	Asn	Arg	Ile	Ala	Asp	Thr	Thr	Leu	Pro	Leu	Asp	Glu	Leu	Val
	610					615						620			
Ala	Asp	Pro	Val	Gln	Ala	Val	Glu	Lys	Met	Ala	Ala	Gln	Glu	Gly	Gln
625				630						635					640
Ile	Gly	Leu	Pro	His	Pro	Lys	Ile	Ala	Leu	Pro	Arg	Glu	Leu	Tyr	Gly
			645						650					655	
Ala	Gly	Arg	Val	Asn	Ser	Ala	Gly	Leu	Asp	Leu	Ala	Asn	Glu	His	Arg
			660					665					670		
Leu	Ala	Ser	Leu	Ser	Ser	Ala	Leu	Leu	Asn	Ser	Ala	Leu	Gln	Lys	Trp
		675					680						685		
Gln	Ala	Arg	Pro	Ile	Leu	Glu	Gln	Ser	Val	Glu	Asp	Gly	Glu	Met	Gln
	690					695					700				
Pro	Val	Ile	Asn	Pro	Ala	Glu	Pro	Lys	Asp	Ile	Val	Gly	Tyr	Val	Arg
705				710						715					720
Glu	Ala	Thr	Glu	Thr	Glu	Val	Glu	Gln	Ala	Leu	Glu	Ser	Ala	Val	Asn
			725						730					735	
Asn	Ala	Pro	Ile	Trp	Phe	Ala	Thr	Pro	Pro	Gln	Glu	Arg	Ala	Ala	Ile
			740					745					750		
Leu	Glu	Arg	Ala	Ala	Val	Leu	Met	Glu	Asp	Gln	Met	Gln	Gln	Leu	Ile
		755					760					765			
Gly	Ile	Leu	Val	Arg	Glu	Ala	Gly	Lys	Thr	Leu	Ser	Asn	Ala	Ile	Ala
	770					775					780				
Glu	Val	Arg	Glu	Ala	Val	Asp	Phe	Leu	His	Tyr	Tyr	Ala	Gly	Gln	Val
					790					795					800
Arg	Asp	Asp	Phe	Asp	Asn	Glu	Thr	His	Arg	Pro	Leu	Gly	Pro	Val	Val
			805						810					815	
Cys	Ile	Ser	Pro	Trp	Asn	Phe	Pro	Leu	Ala	Ile	Phe	Thr	Gly	Gln	Ile
			820					825					830		
Ala	Ala	Ala	Leu	Ala	Ala	Gly	Asn	Ser	Val	Leu	Ala	Lys	Pro	Ala	Glu
		835					840					845			
Gln	Thr	Pro	Leu	Ile	Ala	Ala	Gln	Gly	Ile	Asn	Ile	Leu	Leu	Glu	Ala
	850					855					860				
Gly	Val	Pro	Ala	Gly	Val	Val	Gln	Leu	Leu	Pro	Gly	Arg	Gly	Glu	Thr
865				870						875					880
Val	Gly	Ala	Lys	Leu	Thr	Ser	Asp	Asn	Arg	Val	Arg	Gly	Val	Met	Phe
			885					890						895	
Thr	Gly	Ser	Thr	Glu	Val	Ala	Ser	Leu	Leu	Gln	Arg	Asn	Ile	Ala	Thr
			900					905					910		
Arg	Leu	Asp	Ala	Gln	Gly	Arg	Pro	Thr	Pro	Leu	Ile	Ala	Glu	Thr	Gly
		915					920					925			
Gly	Met	Asn	Ala	Met	Ile	Val	Asp	Ser	Ser	Ala	Leu	Thr	Glu	Gln	Val
	930					935					940				
Val	Val	Asp	Val	Leu	Ala	Ser	Ala	Phe	Asp	Ser	Ala	Gly	Gln	Arg	Cys
945				950						955					960
Ser	Ala	Leu	Arg	Val	Leu	Cys	Leu	Gln	Asp	Asp	Val	Ala	Asp	His	Thr

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<210> 7484
<211> 149
<212> PRT
<213> Enterobacter cloacae
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<400> 7484
Arg Cys Ala Asn Lys Ala Pro Glu Thr Glu Pro Tyr Phe Ile Gly Glu
1 5 10 15
Cys Met Lys Arg Tyr Leu Ile Ala Gly Ala Ala Leu Leu Leu Ser Ala

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<210> 7485
<211> 261
<212> PRT
<213> Enterobacter cloacae
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<210>	7486
<211>	286

<210>	7486
<211>	286

<212> PRT

<213> Enterobacter cloacae

<400> 7486

```

Ser Pro Lys Arg Trp Leu Lys Leu Pro Pro Leu Arg Thr Ser Arg Ser
1      5      10      15
Glu Ala Ala Met Lys Leu Ser Ile Ser Pro Pro Pro Phe Ala Gly Ala
20      25      30
Pro Val Val Val Leu Ile Ala Gly Leu Gly Gly Ser Gly Ser Tyr Trp
35      40      45
Leu Pro Gln Leu Ala Val Leu Gly Gln Glu Tyr Gln Val Val Cys Tyr
50      55      60
Asp Gln Arg Gly Thr Gly Asp Asn Pro Asp Thr Leu Pro Glu Asp Tyr
65      70      75      80
Thr Leu Ala His Met Ala Asp Glu Leu Ala Leu Ala Leu Ala Gly Ala
85      90      95
Gly Ile Ala Arg Tyr Cys Val Val Gly His Ala Leu Gly Ala Leu Val
100      105      110
Gly Leu Arg Leu Ala Ile Asp Lys Pro Asp Ala Leu Thr Ala Leu Val
115      120      125
Cys Val Asn Gly Trp Leu Thr Leu Asn Ala His Thr Arg Arg Cys Phe
130      135      140
Asp Val Arg Glu Arg Leu Leu His Ala Gly Gly Ala Gln Ala Trp Val
145      150      155      160
Glu Ala Gln Pro Leu Phe Leu Tyr Pro Ala Asp Trp Met Ala Ala Arg
165      170      175
Ala Pro Arg Leu Glu Ala Glu Asp Ala Leu Ala Leu Ala His Phe Gln
180      185      190
Gly Lys Ala Asn Leu Leu Arg Arg Leu His Ala Leu Lys Gln Ala Asp
195      200      205
Phe Ser Arg His Ala Ala Arg Val Arg Cys Pro Val Gln Ile Ile Cys
210      215      220
Ser Thr Asp Asp Leu Leu Val Pro Ser Val Cys Ser Asp Glu Leu His
225      230      235      240
Ala Ala Leu Pro His Ala Arg Lys Thr Val Met Arg Gln Gly Gly His
245      250      255
Ala Cys Asn Val Thr Ala Pro Asp Ile Phe Asn Thr Leu Leu Leu Asn
260      265      270
Gly Leu Ala Ser Leu Leu His Ser Pro Glu Pro Ala Leu
275      280      285

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<210> 7487

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7487

```

Met Ser Glu Ala Ile Thr Pro Ala Ala Leu Glu Thr Leu Phe Thr Gly
1      5      10      15
Ala Arg Thr His Asn Gly Trp Leu Asp Ile Pro Val Ser Asp Glu Thr
20      25      30
Leu Arg Glu Ile Tyr Asp Leu Met Lys Trp Gly Pro Thr Ser Ala Asn
35      40      45
Cys Ser Pro Ala Arg Ile Val Phe Val Arg Ser Pro Glu Gly Lys Glu
50      55      60
Lys Leu Arg Pro Ala Leu Ser Ser Gly Asn Leu Glu Lys Thr Leu Thr
65      70      75      80
Ala Pro Val Thr Ala Ile Val Ala Trp Asp Ser Glu Phe Tyr Glu Arg
85      90      95
Leu Pro Glu Leu Phe Pro His Gly Asp Ala Arg Ser Trp Phe Thr Ala
100      105      110

```


Ser Pro Ala Leu Ala Glu Glu Thr Ala Phe Arg Asn Ser Ser Met Gln
 115 120 125
 Ala Ala Phe Leu Ile Phe Ala Cys Arg Ala Leu Gly Leu Asp Thr Gly
 130 135 140
 Pro Met Ser Gly Phe Asp Arg Glu Lys Val Asp Ala Ala Phe Phe Thr
 145 150 155 160
 Gly Thr Leu Leu Lys Ser Asn Leu Leu Ile Asn Ile Gly Tyr Gly Asp
 165 170 175
 Thr Thr Glu Leu Tyr Gly Arg Leu Pro Arg Leu Thr Phe Glu Asp Ala
 180 185 190
 Cys Gly Leu Ala
 195

<210> 7488

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7488

Cys Lys Met Ala Lys Val Leu Val Leu Tyr Tyr Ser Met Tyr Gly His
 1 5 10 15
 Ile Glu Thr Met Ala His Ala Val Ala Glu Gly Ala Asn Arg Val Asp
 20 25 30
 Gly Val Glu Val Val Val Lys Arg Val Pro Glu Thr Met Gln Ala Glu
 35 40 45
 Ala Phe Ala Lys Ala Gly Gly Lys Thr Gln Asn Ala Pro Val Ala Thr
 50 55 60
 Pro Gln Glu Leu Ala Asp Tyr Asp Ala Ile Ile Phe Gly Thr Pro Thr
 65 70 75 80
 Arg Phe Gly Asn Met Ser Gly Gln Met Arg Thr Phe Leu Asp Gln Thr
 85 90 95
 Gly Gly Leu Trp Ala Ser Gly Ala Leu Tyr Gly Lys Leu Ala Ser Val
 100 105 110
 Phe Ser Ser Thr Gly Thr Gly Gly Gly Gln Glu Gln Thr Ile Thr Ser
 115 120 125
 Thr Trp Thr Thr Leu Ala His His Gly Met Val Ile Val Pro Ile Gly
 130 135 140
 Tyr Gly Ala Gln Glu Leu Phe Asp Val Ser Gln Val Arg Gly Gly Thr
 145 150 155 160
 Pro Tyr Gly Ala Thr Thr Ile Ala Gly Gly Asp Gly Ser Arg Gln Pro
 165 170 175
 Ser Asn Glu Glu Leu Ser Ile Ala Arg Tyr Gln Gly Glu Tyr Val Ala
 180 185 190
 Gly Leu Ala Lys Lys Leu Asn Gly
 195 200

<210> 7489

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 7489

Pro Asn Arg Arg Thr Ser Met Pro Thr Gln Glu Ser Lys Ala His His
 1 5 10 15
 Val Gly Glu Trp Ala Ser Leu Arg Asn Thr Ser Pro Glu Ile Ala Glu
 20 25 30
 Ala Ile Phe Glu Val Ala Asn Tyr Asp Glu Lys Leu Ala Glu Gln Ile
 35 40 45
 Trp Glu Glu Gly Asn Asp Glu Val Leu Val Arg Ala Phe Lys Lys Thr
 50 55 60
 Asp Lys Asp Ser Leu Phe Trp Gly Glu Gln Thr Ile Glu Arg Lys Asn

65
Val

70

75

80

<210> 7490

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 7490

Pro	Cys	Trp	Arg	Ala	Ser	Met	Ile	Ser	Ala	Leu	Thr	Ser	Thr	Pro	Lys
1				5					10					15	
Met	Arg	Thr	Val	Trp	Arg	Ser	Pro	Ser	Ile	Cys	Trp	Lys	Asn	Cys	Ala
			20					25					30		
Ser	Ser	Arg	Ser	Trp	Arg	Ala	Gly	Thr	Gly	Leu	Val	Ser	Leu	Ser	Arg
		35					40					45			
Pro	Thr	Arg	Asn	Ala	Ala	Arg	Ser	Ser	Leu	Thr	Thr				
	50					55					60				

<210> 7491

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 7491

His	Pro	Asn	Asn	Lys	Val	Ile	Phe	Lys	Thr	Gly	Thr	Ala	Phe	Ala	Lys
1				5					10					15	
Thr	Pro	Leu	His	Leu	Arg	Arg	Asn	Glu	Glu	Arg	Phe	Val	Met	Lys	Ile
			20					25					30		
Gly	Val	Phe	Val	Pro	Ile	Gly	Asn	Gly	Trp	Leu	Ile	Ser	Thr	Thr	
		35					40					45			
Ala	Pro	Gln	Tyr	Met	Pro	Thr	Phe	Glu	Leu	Asn	Lys	Ala	Ile	Val	Gln
	50					55					60				
Lys	Ala	Glu	His	Tyr	His	Phe	Asp	Phe	Ala	Leu	Ser	Met	Ile	Lys	Leu
65					70					75				80	
Arg	Gly	Phe	Gly	Gly	Lys	Thr	Glu	Phe	Trp	Asp	His	Asn	Leu	Glu	Ser
				85					90					95	
Phe	Thr	Leu	Met	Ala	Gly	Leu	Ala	Ala	Val	Thr	Ser	Arg	Ile	Gln	Ile
			100					105					110		
Tyr	Ala	Thr	Ala	Ala	Thr	Leu	Thr	Leu	Pro	Pro	Ala	Ile	Val	Ala	Arg
		115					120					125			
Met	Ala	Ser	Thr	Ile	Asp	Ser	Ile	Ser	Gly	Gly	Arg	Phe	Gly	Val	Asn
	130					135					140				
Leu	Val	Thr	Gly	Trp	Gln	Lys	Pro	Glu	Tyr	Glu	Gln	Met	Gly	Leu	Trp
145					150					155				160	
Pro	Gly	Asp	Asp	Tyr	Phe	Ser	Arg	Arg	Tyr	Asp	Tyr	Leu	Thr	Glu	Tyr
				165					170					175	
Val	Gln	Val	Leu	Arg	Asp	Leu	Trp	Gly	Thr	Gly	Lys	Ser	Asp	Phe	Lys
			180					185					190		
Gly	Asp	Phe	Phe	Thr	Met	Asn	Asp	Cys	Arg	Val	Ser	Pro	Gln	Pro	Ser
		195					200					205			
Val	Pro	Met	Lys	Val	Ile	Cys	Ala	Gly	Gln	Ser	Asp	Ala	Gly	Met	Glu
	210					215						220			
Phe	Ser	Ala	Lys	Tyr	Ala	Asp	Phe	Asn	Phe	Cys	Phe	Gly	Lys	Gly	Val
225					230					235				240	
Asn	Thr	Pro	Ala	Ala	Phe	Ala	Pro	Thr	Ala	Ala	Arg	Met	Lys	Glu	Ala
				245					250					255	
Ala	Asp	Lys	Thr	Gly	Arg	Asp	Val	Gly	Ser	Tyr	Val	Leu	Phe	Met	Val
			260					265					270		
Ile	Ala	Asp	Glu	Thr	Asp	Glu	Ala	Ala	Arg	Ala	Lys	Trp	Gln	Arg	Tyr
		275					280						285		

Lys Asp Gly Ala Asp Glu Glu Ala Leu Ser Trp Leu Thr Glu Gln Ser
 290 295 300
 Gln Lys Asp Thr Arg Ser Gly Ala Asp Thr Asn Val Arg Gln Met Ala
 305 310 315 320
 Asp Pro Thr Ser Ala Val Asn Ile Asn Met Gly Thr Leu Val Gly Ser
 325 330 335
 Tyr Ala Ser Val Ala Arg Met Leu Asp Glu Val Ala Ala Val Pro Gly
 340 345 350
 Ala Glu Gly Val Leu Leu Thr Phe Asp Asp Phe Leu Thr Gly Val Glu
 355 360 365
 Thr Phe Gly Glu Arg Ile Gln Pro Leu Met Gln Cys Arg Ala His Ile
 370 375 380
 Pro Ala Val Thr Lys Glu Val Ala
 385 390

<210> 7492

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7492

Gly Ala Ile Met Thr Thr Leu Asp Gln Gln Thr Phe Arg Asp Ala Met
 1 5 10 15
 Ala Cys Val Gly Ala Ala Val Asn Ile Ile Thr Thr Asp Gly Pro Ala
 20 25 30
 Gly Met Ala Gly Phe Thr Ala Ser Ala Val Cys Ser Val Thr Asp Thr
 35 40 45
 Pro Pro Thr Leu Leu Val Cys Leu Asn Arg Gly Ala Ser Val Trp Pro
 50 55 60
 Ile Phe Ser Glu Asn Arg Thr Leu Cys Val Asn Thr Leu Ser Ala Gly
 65 70 75 80
 Gln Glu Pro Leu Ser Ser Leu Phe Gly Gly Lys Thr Pro Met Ala Asp
 85 90 95
 Arg Phe Ala Ala Ala Arg Trp Gln Thr Gly Glu Thr Gly Cys Pro Arg
 100 105 110
 Leu Glu Ala Ala Leu Ala Ser Phe Asp Cys Arg Ile Ser Gln Val Val
 115 120 125
 Ser Val Gly Thr His Asp Ile Leu Phe Cys Asp Ile Val Ser Ile Ile
 130 135 140
 Arg His Pro Ala Pro Gln Gly Leu Val Trp Phe Asp Arg Gly Tyr His
 145 150 155 160
 Ala Leu Met Arg Pro Ala Cys
 165

<210> 7493

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 7493

Ser Ala Phe Arg Arg Gln Ile Met Phe Gly Leu Pro His Trp Gln Leu
 1 5 10 15
 Lys Ser Thr Ser Thr Glu Glu Gly Val Val Ala Pro Asp Glu Arg Leu
 20 25 30
 Pro Leu Gly Gln Thr Met Val Met Gly Val Gln His Ala Val Ala Met
 35 40 45
 Phe Gly Ala Thr Val Leu Met Pro Met Leu Met Gly Leu Asp Pro Asn
 50 55 60
 Leu Ala Ile Leu Met Ser Gly Met Gly Thr Leu Leu Phe Phe Phe Val
 65 70 75 80
 Thr Gly Gly Arg Val Pro Ser Tyr Leu Gly Ser Ser Ala Ala Phe Val

```
<210> 7494
<211> 894
<212> PRT
<213> Enterobacter cloacae
```

Leu	Phe	Leu	Gln	Trp	Asn	Gly	Trp	Thr	Ala	Ala	Tyr	Phe	Gly	Thr	His
1				5					10					15	
Met	Ser	Gln	Glu	Thr	Pro	Ala	Ser	Pro	Thr	Glu	Ala	Arg	Ile	Lys	Thr
			20					25					30		
Lys	Arg	Arg	Ile	Ser	Pro	Phe	Trp	Leu	Leu	Pro	Val	Ile	Ala	Leu	Met
			35				40					45			
Ile	Ala	Gly	Trp	Leu	Ile	Trp	Thr	Ser	Tyr	Glu	Asp	Arg	Gly	Ser	Thr
	50					55				60					
Ile	Thr	Ile	Asp	Phe	Gln	Ser	Ala	Asp	Gly	Ile	Val	Ala	Gly	Arg	Thr


```
<210> 7495
<211> 95
<212> PRT
<213> Enterobacter cloacae
```

<400> 7495															
Leu	His	Trp	Ser	Tyr	Gln	Ile	Leu	Gly	Asn	Lys	Pro	Glu	Ser	Ile	Met
1				5					10					15	
Thr	Lys	Thr	Ser	Val	Arg	Ile	Gly	Ala	Phe	Glu	Ile	Asp	Asp	Ala	Glu
			20					25					30		
Leu	Arg	Gly	Glu	Ser	Gln	Gly	Glu	Arg	Thr	Leu	Ser	Ile	Pro	Cys	Lys
		35					40					45			
Ser	Asp	Pro	Asp	Leu	Cys	Met	Gln	Leu	Asp	Ala	Trp	Asp	Ala	Asp	Thr
	50					55					60				
Ser	Val	Pro	Ala	Ile	Leu	Asp	Gly	Glu	His	Ser	Val	Leu	Tyr	Arg	Glu
65				70					75						80
His	Tyr	Asp	Ser	Lys	Thr	Asp	Ala	Trp	Val	Leu	Arg	Leu	Ala		
				85					90					95	

<210> 7496
 <211> 368
 <212> PRT
 <213> Enterobacter cloacae

<400> 7496

```

Thr Gly Val Gly Phe Arg Glu Ser Lys Gln Thr Ile Asn Gln Pro Glu
1      5      10      15
Ile Lys Ile Ala Leu Leu Ile Pro Tyr Ser Leu Ala Phe Lys Ile
20      25      30
Glu Arg Asn Lys Lys Arg Asp Phe His Val Ser Asn Ile His Leu Gln
35      40      45
Asn Asp Val Phe Tyr Pro His Arg Thr Asn Ile Ile Ser Glu Leu Val
50      55      60
Arg Gly Lys Arg Val Pro Gly Pro Ile Trp His Lys Arg Asp Tyr Arg
65      70      75      80
Leu Lys Phe Leu Leu Arg Ser Leu Leu Phe Trp Ser Ser Thr His Arg
85      90      95
Met Leu Glu Ala Leu Ser Gly Arg Asp Phe Asp Arg Leu Leu Thr
100     105     110
Ser Gln Ile Thr Leu Pro Ser Lys Thr His Arg Gln Tyr Leu Met Arg
115     120     125
Gly Leu Asn Ser Asn Asp Arg Ala Asp Ala Ile Val Ser His Tyr Gln
130     135     140
Trp Ile Asp Ser Leu Lys Asn Ile Ala Leu Ala His Ala Leu Thr Ser
145     150     155     160
Pro Gln Glu Val Pro Val Val Arg Phe Glu Ala Lys Asn Gly Glu Ile
165     170     175
Tyr Thr Val His Ala Ser Ser Ala Gly Lys Ala Glu Arg Glu Gly Glu
180     185     190
Ser Thr Leu Trp Leu His Asp Asn Asp Asn Thr Leu Leu Ala Ser Leu
195     200     205
Thr Phe Cys Val Ala Arg Ser Asn Gly Arg Thr Val Leu Val Ile Gly
210     215     220
Gly Leu Gln Gly Pro Arg Arg His Val Ser Arg Glu Val Ile Lys Gln
225     230     235     240
Ala Thr Arg Ala Cys His Gly Leu Phe Pro Lys Arg Val Leu Met Glu
245     250     255
Val Ile Phe Gln Leu Ala Ser Arg Ser Asn Ile Ser Ala Ile Phe Ala
260     265     270
Val Ser Asp Glu Gly His Val Phe Arg Ala Leu Arg Tyr Arg Leu Ser
275     280     285
Lys Gly Arg His Phe His Ala Ser Tyr Asp Glu Phe Trp Glu Gly Leu
290     295     300
Asn Gly Lys Lys Leu Ser Pro Phe Cys Trp Gln Leu Pro Leu Gln Met
305     310     315     320
Glu Arg Lys Ala Leu Glu Glu Ile Ala Ser Lys Lys Arg Ala Glu Tyr
325     330     335
Arg Arg Arg Phe Ala Leu Leu Asp Asp Ile Ala Ala Ser Val Gln Ala
340     345     350
Arg Ile Asp Pro Ala Val Val Ser Gly Lys Ile Gln Thr Lys Ile
355     360     365

```

<210> 7497
 <211> 91
 <212> PRT
 <213> Enterobacter cloacae

<400> 7497

Thr Ile Ala Val Thr Leu Pro Pro Gln Lys Lys Glu Lys Glu Met Asn

1				5					10				15
Val	Asn	Leu	Ala	Ala	Leu	Pro	Gln	Asp	Glu	Met	Asp	Lys	Val
			20					25				30	Asn
Asp	Leu	Ala	Ala	Gly	Val	Ala	Phe	Lys	Glu	Arg	Tyr	Asn	Met
		35				40					45		Pro
Val	Val	Ala	Glu	Val	Val	Glu	Arg	Glu	Gln	Pro	Ala	His	Leu
	50				55					60		Arg	Asp
Trp	Phe	Arg	Glu	Arg	Leu	Ile	Ala	His	Arg	Leu	Ala	Ser	Val
65					70				75				Asn
													Leu
Ser	Arg	Leu	Pro	Tyr	Glu	Pro	Lys	Val	Lys				
				85					90				

<210> 7498

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7498

Asn	Pro	Ser	Asp	Leu	Val	Tyr	Lys	Glu	Val	Thr	Met	Ser	Arg	Trp	Asn
1				5					10					15	
Ile	Ala	Ala	Ala	Gln	Tyr	Ala	Pro	Arg	His	Asn	Cys	Val	Asp	Glu	His
			20					25					30		
Val	Lys	His	His	Leu	His	Phe	Ile	Ala	Glu	Ala	Ala	Trp	His	Gly	Cys
		35				40						45			
Asp	Leu	Ile	Val	Phe	Pro	Glu	Leu	Ser	Leu	Thr	Gly	Pro	Gly	Gly	Thr
	50				55					60					
Ser	Leu	Pro	Pro	Pro	Pro	Asp	Asp	Leu	Gln	Leu	Ala	Pro	Leu	Leu	His
65				70					75						80
Ala	Ala	Gln	Ser	Arg	Phe	Ile	Thr	Val	Ile	Ala	Gly	Ile	Thr	Leu	Gln
				85					90					95	
Gln	His	Gly	Gln	Arg	Gln	Lys	Gly	Leu	Ala	Leu	Phe	Thr	Pro	Asn	Leu
		100					105						110		
Ser	Thr	Ile	Arg	Arg	Tyr	Pro	Gln	Gly	Asn	Gly	Ala	Gly	Val	Ile	Pro
	115						120					125			
Gly	Asp	Lys	Arg	Leu	Thr	Ile	Val	Asp	Asn	Gln	Ala	Asp	Ala	Pro	Glu
	130				135						140				
Leu	Asp	Pro	Glu	Ala	Thr	Leu	Phe	Thr	Ser	Ser	Leu	Ala	Val	Gly	Glu
145				150					155						160
His	Arg	Trp	Arg	Gln	Ser	Ile	Gly	Ser	Leu	Gln	Arg	Phe	Ala	His	Lys
				165					170					175	
Tyr	Ala	Ile	Ala	Val	Leu	Met	Ala	Asn	Ala	Arg	Gly	Gly	Ser	Ala	Leu
		180					185						190		
Trp	Asp	Glu	Lys	Gly	Gln	Leu	Ile	Val	Arg	Ala	Asp	Lys	Gly	Glu	Leu
	195					200					205				
Leu	Leu	Thr	Gly	Ser	Leu	Gly	Gln	Gln	Gly	Trp	Gln	Gly	Asp	Ile	Ile
	210					215					220				
Pro	Leu	Gly													
225															

<210> 7499

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7499

Asp	Gln	Glu	Arg	Ser	Met	Leu	Arg	Val	Ile	Asp	Thr	Glu	Thr	Cys	Asp
1				5					10					15	
Leu	Gln	Gly	Gly	Ile	Val	Glu	Val	Ala	Ser	Val	Asp	Val	Ile	Asp	Gly
		20						25					30		
Lys	Ile	Val	Asn	Pro	Met	Ser	His	Leu	Val	Arg	Pro	Asp	Arg	Pro	Ile
	35						40					45			

Ser Ala Gln Ala Met Ala Ile His Arg Ile Thr Glu Ser Met Val Ala
 50 55 60
 Asp Lys Pro Trp Ile Glu Ile Ile Pro Leu Tyr His Gly Ser Gln
 65 70 75 80
 Trp Tyr Val Ala His Asn Ala Ser Phe Asp Arg Arg Val Leu Pro Glu
 85 90 95
 Met Pro Gly Glu Trp Ile Cys Thr Met Lys Leu Ala Arg Arg Leu Trp
 100 105 110
 Pro Gly Ile Lys Tyr Ser Asn Met Ala Leu Tyr Lys Ser Arg Lys Leu
 115 120 125
 Ser Val Arg Thr Pro Glu Gly Leu His His His Arg Ala Leu Tyr Asp
 130 135 140
 Cys Tyr Ile Thr Ala Ala Leu Leu Ile Asp Ile Met Asn Thr Ser Gly
 145 150 155 160
 Trp Thr Pro Asp Asp Met Ala Thr Ile Thr Gly Arg Pro Ala Leu Leu
 165 170 175
 Thr Thr Phe Thr Phe Gly Lys Tyr Arg Gly Lys Pro Val Ser Glu Val
 180 185 190
 Ala Asp Lys Asp Pro Gly Tyr Leu Arg Trp Leu Tyr Asn Asn Leu Asp
 195 200 205
 Arg Met Ser Pro Glu Leu Arg Leu Thr Leu Lys His Tyr Leu Gly Glu
 210 215 220
 Ala
 225

<210> 7500

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 7500

Leu Ser Thr Ile Leu Ile Cys Val Arg Leu Met Ala Leu Lys Thr Pro
 1 5 10 15
 Gln Ile Thr Pro Thr Arg Lys Ile Val Val Arg Thr Val Ser Gln Ala
 20 25 30
 Leu Pro Arg Ala His Tyr Gln Arg Cys Pro Gln Cys Asp Thr Leu Phe
 35 40 45
 Met Leu Pro Lys Met Lys Ser His Gln Ser Ala Phe Cys Pro Cys Cys
 50 55 60
 Asp Ala Lys Ile Arg Asp Gly Arg Asp Trp Ser Leu Thr Arg Leu Ala
 65 70 75 80
 Ala Met Ala Val Thr Met Leu Leu Leu Met Pro Phe Ala Trp Thr Glu
 85 90 95
 Pro Leu Leu Lys Leu Tyr Leu Leu Gly Val Arg Ile Asp Ala Asn Val
 100 105 110
 Leu Gln Gly Ile Trp Gln Met Thr Arg Gln Gly Asp Pro Leu Thr Ala
 115 120 125
 Ala Met Val Leu Phe Cys Val Val Gly Ala Pro Leu Val Leu Val Ala
 130 135 140
 Ala Ile Ala Tyr Leu Trp Phe Gly Asn Ile Leu Gly Met Asn Leu Arg
 145 150 155 160
 Pro Val Leu Leu Met Leu Glu Lys Leu Lys Glu Trp Val Met Leu Asp
 165 170 175
 Ile Tyr Leu Val Gly Val Gly Val Ala Ser Ile Lys Val Gln Asp Tyr
 180 185 190
 Ala Phe Leu Gln Pro Gly Ile Gly Leu Phe Ala Phe Ile Ser Leu Val
 195 200 205
 Leu Leu Ser Ile Leu Thr Leu Ile His Leu Asn Val Glu Gln Leu Trp
 210 215 220
 Glu Arg Phe Tyr Pro Gln Arg Pro Ala Thr Arg Pro Asp Asp Asn Leu
 225 230 235 240

Arg Val Cys Leu Gly Cys His Tyr Thr Gly Phe Pro Asp Lys Arg Gly
 245 250 255
 Arg Cys Pro Arg Cys His Ile Pro Leu Arg Arg Arg Asn Asn Ser
 260 265 270
 Leu Gln Lys Cys Trp Ala Ala Leu Ile Ala Ser Leu Val Phe Leu Phe
 275 280 285
 Pro Ala Asn Met Leu Pro Ile Ser Val Ile Tyr Val Asn Gly Ala Arg
 290 295 300
 Gln Glu Asp Thr Ile Leu Ser Gly Ile Ile Ser Leu Ala His Ser Asn
 305 310 315 320
 Val Gly Val Ala Ala Ile Val Phe Ile Ala Ser Ile Leu Val Pro Phe
 325 330 335
 Thr Lys Val Val Val Met Phe Thr Leu Leu Ile Ser Ile His Phe Lys
 340 345 350
 Cys Glu Gln Gly Leu Arg Thr Arg Ile Leu Leu Leu Arg Phe Val Thr
 355 360 365
 Trp Ile Gly Arg Trp Ser Met Leu Asp Leu Phe Val Ile Ser Leu Met
 370 375 380
 Met Ser Leu Ile Asn Arg Asp Gln Leu Leu Ala Phe Thr Met Gly Pro
 385 390 395 400
 Ala Ala Phe Tyr Phe Gly Ser Ala Val Ile Leu Thr Ile Leu Ala Val
 405 410 415
 Glu Trp Leu Asp Ser Arg Leu Leu Trp Asp Ala His Glu Ser Gly Asn
 420 425 430
 Ala Arg Phe Ala Asp
 435

<210> 7501

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7501

Met Phe Pro Cys Gly Val Pro Val Ala Gln Asn Ser Val Phe Leu Pro
 1 5 10 15
 Glu Gln Phe Leu Ala Gln Met Arg Glu Ala Leu Pro Ala His Leu Ser
 20 25 30
 Phe Asp Asp Phe Val Ala Ala Cys Gln Arg Pro Leu Arg Arg Ser Ile
 35 40 45
 Arg Val Asn Thr Leu Lys Thr Ser Val Gly Ala Phe Leu Asp Leu Val
 50 55 60
 Ser Pro Tyr Gly Trp Gln Leu Thr Pro Val Pro Trp Cys Glu Glu Gly
 65 70 75 80
 Phe Trp Ile Glu Arg Asp Asp Glu Glu Ser Leu Pro Leu Gly Ser Thr
 85 90 95
 Ala Glu His Leu Ser Gly Leu Phe Tyr Ile Gln Glu Ala Ser Ser Met
 100 105 110
 Leu Pro Val Ala Ala Leu Phe Ala Asp Gly Asn Gln Pro Glu Arg Val
 115 120 125
 Met Asp Val Ala Ala Ala Pro Gly Ser Lys Thr Thr Gln Ile Ala Ala
 130 135 140
 Arg Met Asn Asn Arg Gly Ala Ile Leu Ala Asn Glu Phe Ser Ala Ser
 145 150 155 160
 Arg Val Lys Val Leu His Ala Asn Ile Ser Arg Cys Gly Ile His Asn
 165 170 175
 Val Ala Leu Thr His Phe Asp Gly Arg Val Phe Gly Ala Ala Leu Pro
 180 185 190
 Glu Ala Phe Asp Ala Ile Leu Leu Asp Ala Pro Cys Ser Gly Glu Gly
 195 200 205
 Val Val Arg Lys Asp Pro Asp Ala Leu Lys Asn Trp Ser Val Glu Ser
 210 215 220

```

Asn Leu Gln Ile Ala Ala Thr Gln Arg Glu Leu Ile Asp Ser Ala Phe
225      230      235      240
His Ala Leu Arg Pro Gly Gly Thr Leu Val Tyr Ser Thr Cys Thr Leu
      245      250      255
Asn Arg Asp Glu Asn Glu Asp Val Cys Leu Trp Leu Lys Gln Arg Tyr
      260      265      270
Val Asp Ala Val Glu Phe Leu Pro Leu Asp Thr Leu Phe Asp Ser Ala
      275      280      285
Ser His Ala Ala Thr Pro Glu Gly Phe Leu His Val Phe Pro Gln Ile
      290      295      300
Tyr Asp Cys Glu Gly Phe Phe Val Ala Arg Leu Arg Lys Thr Arg Ala
305      310      315      320
Val Asp Pro Leu Pro Ala Pro Lys Phe Lys Val Gly Asn Phe Pro Phe
      325      330      335
Ala Pro Val Lys Gly Arg Glu Ala Ala Gln Ala Gln Ala Ala Ala Ser
      340      345      350
Lys Val Gly Leu His Trp Asp Glu Ser Leu Arg Leu Trp Met Arg Asp
      355      360      365
Lys Glu Leu Trp Leu Phe Pro Val Asn Ile Glu Pro Leu Ile Gly Lys
      370      375      380
Val Arg Phe Ser Arg Leu Gly Ile Arg Leu Ala Glu Ile His Asn Lys
385      390      395      400
Gly Tyr Arg Trp Gln His Glu Ala Val Ile Ala Leu Ala Gly Ser Glu
      405      410      415
Asn Thr Phe Ala Leu Thr His Gln Glu Ala Glu Glu Trp Tyr Arg Gly
      420      425      430
Arg Asp Val Tyr Pro Glu Asp Gly Pro Leu Gln Asp Glu Val Ile Val
      435      440      445
Thr Tyr Gln Gly Tyr Pro Leu Gly Leu Ala Lys Lys Val Gly Ser Arg
      450      455      460
Leu Lys Asn Ser Tyr Pro Arg Glu Leu Val Arg Asp Gly Arg Leu Phe
465      470      475      480
Thr Gly Asn Asn Arg Ser Ala
      485

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<210> 7502

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7502

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Arg Ser Ala Asn Phe Pro Leu Val Arg Leu Ser Pro Tyr Lys Thr Asp
1      5      10      15
Ala Asn Val Phe Val Tyr Thr Thr Arg Ile Phe Phe Arg Gly Ile Phe
      20      25      30
Met Thr Leu Leu Gly Thr Ala Leu Arg Pro Ala Ala Thr Arg Val Met
      35      40      45
Leu Leu Gly Ser Gly Glu Leu Gly Lys Glu Val Ala Ile Glu Cys Gln
      50      55      60
Arg Leu Gly Val Glu Val Ile Ala Val Asp Arg Tyr Ala Asn Ala Pro
      65      70      75      80
Ala Met His Val Ala His Arg Ser His Val Ile Asp Met Leu Asp Gly
      85      90      95
Asn Ala Leu Arg Ala Leu Ile Ala Glu Glu Lys Pro Asp Phe Val Val
      100      105      110
Pro Glu Ile Glu Ala Ile Ala Thr Glu Met Leu Val Ala Leu Glu Gln
      115      120      125
Glu Gly Gln Arg Val Val Pro Cys Ala Thr Ala Ala Lys Leu Thr Met
      130      135      140
Asn Arg Glu Gly Ile Arg Arg Leu Ala Ala Glu Glu Leu Gln Leu Pro
145      150      155      160

```

Thr Ser Ser Tyr Arg Phe Ala Gly Asp Lys Ala Ala Phe Leu Gln Ala
 165 170
 Val Glu Glu Ile Gly Tyr Pro Cys Ile Lys Pro Val Met Ser Ser
 180 185 190
 Ser Gly Lys Gly Gln Ser Phe Ile Arg Asp Ser Ser Thr Leu Asp Gln
 195 200 205
 Ala Trp Asp Tyr Ala Gln Gln Gly Gly Arg Ala Gly Ala Gly Arg Val
 210 215 220
 Ile Val Glu Gly Val Val Lys Phe Asp Phe Glu Ile Thr Leu Leu Thr
 225 230 235 240
 Val Ser Ala Val Asp Gly Val Tyr Phe Cys Asp Pro Ile Gly His Arg
 245 250 255
 Gln Glu Asp Gly Asp Tyr Arg Glu Ser Trp Gln Pro Gln Gln Met Ser
 260 265 270
 Ala Leu Ala Leu Ala Arg Ala Gln Glu Ile Ala Arg Lys Thr Val Leu
 275 280 285
 Ala Leu Gly Gly Tyr Gly Leu Phe Gly Val Glu Leu Phe Val Cys Gly
 290 295 300
 Asp Glu Val Ile Phe Ser Glu Val Ser Pro Arg Pro His Asp Thr Gly
 305 310 315 320
 Met Val Thr Leu Ile Ser Gln Asp Leu Ser Glu Phe Ala Leu His Val
 325 330 335
 Arg Ala Phe Leu Gly Leu Pro Val Gly Gly Ile Arg Gln Tyr Gly Pro
 340 345 350
 Ala Ala Ser Ala Val Ile Leu Pro Gln Leu Thr Ser Gln Asn Val Thr
 355 360 365
 Phe Asp Asn Val Glu Gly Ala Val Gly Ala Gly Leu Gln Val Arg Leu
 370 375 380
 Phe Gly Lys Pro Glu Ile Asp Gly Ser Arg Arg Leu Gly Val Ala Leu
 385 390 395 400
 Ala Thr Gly Glu Asn Val Asp Glu Ala Val Ala Arg Ala Lys Ile Ala
 405 410 415
 Ala Thr Ala Val Lys Val Thr Gly
 420 425

<210> 7503

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7503

Cys Thr Gly Ser Gln Ser Leu Arg Arg Pro Gly Glu Thr Gln Leu Tyr
 1 5 10 15
 Pro Arg Gln Asn Gly Ser Trp Arg Ser Gly Ala Val Ile Leu Leu Pro
 20 25 30
 Pro Gly Asp Glu Cys Leu Pro Gly Ser Trp Ser Val Leu Pro Gln Trp
 35 40 45
 Arg Lys Ala Leu Arg Ala Gly Leu Pro Ala Gln Gly Gln Pro Ala Ser
 50 55 60
 Gln Trp Gln Trp Pro Gln Phe Gln Ala Pro Arg Asn Pro Val Phe Pro
 65 70 75 80
 Arg Gln Leu Thr Pro Ala Gly His Cys Arg Gln Ala Tyr Arg
 85 90 95

<210> 7504

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7504

Asn Ser Met Leu Ala Leu Ser Tyr Val Ala Leu Leu Phe Ile His Phe

1				5					10				15
Ala	Ala	Leu	Met	Leu	Leu	Phe	Gly	Asn	Ala	Leu	Tyr	Ser	Val
			20					25					30
Ala	Pro	Ser	Ser	Leu	Gln	Arg	Leu	Met	Thr	Arg	Arg	Phe	Gln
		35					40					45	Arg
Gln	Lys	Leu	Ala	Ala	Leu	Ile	Ser	Leu	Met	Ala	Ala	Leu	Leu
	50					55				60		Met	Phe
Gly	Leu	Gln	Ser	Gly	Leu	Met	Gly	Asn	Gly	Trp	Ser	Asp	Val
65					70					75			Ile
Pro	Ala	Val	Trp	Arg	Ser	Val	Leu	Gly	Thr	Gln	Phe	Gly	Gly
				85					90				95
Leu	Trp	Gln	Met	Val	Leu	Ala	Ala	Val	Thr	Ala	Gly	Ala	Ala
			100					105					110
Thr	Pro	Gln	Lys	Gly	Ser	Arg	Leu	Leu	Leu	Val	Met	Gly	Gln
		115					120				125		Leu
Val	Leu	Leu	Ala	Gly	Val	Gly	His	Ala	Ala	Met	Asn	Gly	Gly
	130					135					140		Ala
Gly	Ala	Leu	His	Arg	Leu	Asn	His	Ala	Leu	His	Leu	Leu	Cys
145					150					155			Ala
Thr	Trp	Val	Gly	Gly	Leu	Leu	Pro	Leu	Leu	Phe	Cys	Met	Arg
				165					170				175
Lys	Gly	Arg	Trp	Gln	Pro	Ala	Ala	Ile	Phe	Thr	Met	Met	Arg
			180					185					190
Arg	Val	Gly	His	Tyr	Ala	Val	Ala	Gly	Val	Leu	Leu	Thr	Gly
		195					200					205	Ile
Asn	Thr	Leu	Phe	Ile	Val	Gly	Ile	Asn	Val	Pro	Trp	His	Ala
	210					215					220		Pro
Val	Gln	Leu	Leu	Leu	Leu	Lys	Cys	Ala	Leu	Val	Met	Met	Met
225					230					235			Val
Ile	Ala	Leu	Ala	Asn	Arg	Tyr	Phe	Leu	Val	Pro	Arg	Phe	Arg
				245					250				255
Ala	Gly	Arg	Glu	Gln	Gln	Ile	Phe	Ile	Arg	Met	Thr	Gln	Ala
			260					265					270
Val	Leu	Gly	Ala	Leu	Val	Leu	Ala	Ala	Val	Ser	Leu	Phe	Ala
		275					280					285	Thr
Glu	Pro	Phe											
	290												

<210> 7505

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7505

Ala	Val	Lys	Val	Thr	His	Cys	Tyr	Val	Arg	Lys	Asn	Met	Ser	Gly	Trp
1				5					10					15	
Met	Asn	Gln	Leu	Gln	Ser	Leu	Leu	Gly	Gln	Lys	Gly	Ser	Ser	Ser	Gly
		20						25					30		
Glu	Gln	Gly	Leu	Ser	Lys	Leu	Leu	Val	Pro	Gly	Ala	Leu	Gly	Gly	Leu
		35					40					45			
Ala	Gly	Leu	Leu	Val	Ala	Asn	Lys	Ser	Ser	Arg	Lys	Leu	Leu	Thr	Lys
	50					55					60				
Tyr	Gly	Thr	Gly	Ala	Leu	Leu	Ala	Gly	Gly	Gly	Ala	Ile	Ala	Gly	Ser
65					70					75					80
Val	Leu	Trp	Asn	Lys	Tyr	Lys	Asp	Lys	Val	Arg	Ser	Ala	His	Gln	Asp
			85						90					95	
Glu	Pro	Gln	Tyr	Gly	Lys	Gln	Val	Ser	Pro	Leu	Asp	Leu	Arg	Thr	Glu
		100						105					110		
Arg	Leu	Ile	Leu	Ala	Leu	Val	Phe	Ala	Ala	Lys	Ser	Asp	Gly	His	Ile
		115					120					125			
Asp	Ala	Ser	Glu	Arg	Ala	Ala	Ile	Glu	Gln	Gln	Met	Arg	Glu	Ala	Gly

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<210> 7506
<211> 701
<212> PRT
<213> Enterobacter cloacae
```

<400> 7506																
Asp 1	Val	Lys	Arg	Lys 5	Ser	Lys	Asn	Ala	Met 10	Pro	Pro	Lys	Ala	Arg 15	Arg	
Thr	Pro	Tyr	Ala 20	Ile	Thr	Thr	His	Gly 25	Asp	Thr	Arg	Ile	Asp 30	Asn	Tyr	
Tyr	Trp	Leu 35	Arg	Asp	Asp	Ser	Arg 40	Ser	Arg	Pro	Glu	Val 45	Leu	Asp	Tyr	
Leu	His 50	Glu	Glu	Asn	Asp	Tyr 55	Gly	Arg	Gln	Val	Met 60	Ala	Ser	Gln	Gln	
Ala 65	Leu	Gln	Asp	Gln	Leu 70	Leu	Asn	Glu	Met	Val 75	Gln	Arg	Ile	Pro	Gln 80	
Arg	Asp	Val	Ser	Ala 85	Pro	Trp	Cys	Lys	Asn 90	Gly	Tyr	Arg	Tyr	Arg 95	His	
Ile	Tyr	Glu	Pro 100	Gly	Asn	Glu	Tyr	Pro 105	Ile	Tyr	Gln	Arg	Gln 110	Ser	Val	
Leu	Ser	Ala 115	Glu	Trp	Asp	Glu	Trp 120	Glu	Ile	Leu	Leu	Asp 125	Ala	Asn	Lys	
Arg	Ala 130	Ala	His	Ser	Glu	Phe 135	Tyr	Thr	Leu	Gly	Gly 140	Met	Ser	Ile	Ser	
Pro 145	Asp	Asn	Ala	Ile	Met 150	Ala	Leu	Ala	Glu	Asp 155	Tyr	Leu	Ser	Arg	Arg 160	
Gln	Tyr	Gly	Leu 165	Arg	Phe	Arg	Asn	Leu 170	Thr	Gly	Asn	Trp	Tyr 175	Pro		
Glu	Met	Leu 180	Asp	Asn	Val	Ser	Pro	Asp 185	Phe	Val	Trp	Gly	Asn 190	Asp	Ser	
Glu	Thr	Val 195	Tyr	Tyr	Val	Lys	Lys 200	His	Ala	Ser	Thr	Leu 205	Leu	Pro	Tyr	
Gln	Val 210	Trp	Arg	His	Thr	Val 215	Gly	Thr	Asp	Ser	Ala	Asp 220	Asp	Glu	Leu	
Val 225	Tyr	Glu	Glu	Lys	Asp 230	Glu	Thr	Phe	Tyr	Val 235	Ser	Leu	His	Lys	Thr 240	
Ser	Ser	Arg	His	Tyr 245	Val	Ile	Ile	Phe	Leu 250	Ser	Ser	Ala	Thr	Thr 255	Ser	
Glu	Val	Leu 260	Leu	Leu	Asp	Ala	Glu	Leu 265	Pro	Asp	Ala	Gln	Pro 270	Leu	Cys	
Phe	Leu	Pro 275	Arg	Arg	Lys	Asp	His	Glu 280	Tyr	Ser	Leu	Asp 285	His	Phe	Gln	
His	Ser 290	Phe	Tyr	Leu	Arg	Ser 295	Asn	Arg	Glu	Gly	Lys 300	Asn	Phe	Gly	Leu	
Tyr 305	Lys	Thr	Lys	Val	Arg 310	Asp	Glu	Arg	Lys	Trp 315	Glu	Val	Leu	Ile	Pro 320	
Ala	Arg	Asp	Gln	Val	Met	Leu	Glu	Gly	Phe	Thr	Leu	Phe	Thr	Asp	Trp	

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<210> 7507
<211> 114
<212> PRT
<213> Enterobacter cloacae
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<400> 7507															
His	Met	Lys	Lys	Thr	Leu	Leu	Ser	Leu	Leu	Leu	Leu	Thr	Cys	Ala	Ser
1				5					10					15	
Ser	Ala	Leu	Ala	Ala	Pro	Gln	Val	Ile	Thr	Val	Ser	Arg	Phe	Glu	Val
			20					25					30		
Gly	Lys	Asp	Asn	Trp	Ala	Phe	Asn	Arg	Glu	Glu	Val	Met	Leu	Thr	Cys
		35					40					45			
Arg	Pro	Gly	Asn	Ala	Leu	Tyr	Val	Ile	Asn	Pro	Ser	Thr	Leu	Val	Gln

50		55		60														
Tyr	Pro	Leu	Asn	Asp	Val	Ala	Glu	Gln	Gln	Val	Ala	Ser	Gly	Lys	Ser			
65					70					75					80			
Asn	Gly	Gln	Pro	Val	Ser	Val	Ile	Gln	Val	Asp	Asp	Pro	Ala	Asn	Pro			
				85					90					95				
Gly	Gln	Lys	Lys	Ser	Leu	Ala	Pro	Phe	Ile	Glu	Arg	Ala	Glu	Lys	Leu			
			100					105					110					

Cys

<210> 7508

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7508

Ile	Met	Asn	Lys	Thr	Glu	Phe	Tyr	Ala	Asp	Leu	Asn	Arg	Asp	Phe	Lys			
1				5					10					15				
Ala	Leu	Met	Ala	Gly	Glu	Thr	Ser	Phe	Leu	Ala	Thr	Leu	Ala	Asn	Thr			
			20					25					30					
Ser	Ala	Leu	Leu	Phe	Glu	Arg	Leu	Ser	Asp	Val	Asn	Trp	Ala	Gly	Phe			
			35				40				45							
Tyr	Leu	Leu	Glu	Gly	Asp	Thr	Leu	Val	Leu	Gly	Pro	Phe	Gln	Gly	Lys			
			50			55				60								
Leu	Ala	Cys	Val	Arg	Ile	Pro	Val	Gly	Arg	Gly	Val	Cys	Gly	Thr	Ala			
65					70					75					80			
Val	Ala	Thr	Arg	Gln	Val	Gln	Arg	Val	Glu	Asp	Val	His	Ala	Phe	Asp			
				85					90					95				
Gly	His	Ile	Ala	Cys	Asp	Ala	Ser	Ser	Asn	Ser	Glu	Ile	Val	Leu	Pro			
			100					105					110					
Leu	Val	Val	Lys	Asn	Gln	Ile	Ile	Gly	Val	Leu	Asp	Ile	Asp	Ser	Thr			
			115				120					125						
Val	Phe	Ser	Arg	Phe	Thr	Ala	Glu	Asp	Glu	Gln	Gly	Leu	Arg	Ala	Leu			
			130			135					140							
Ala	Ala	Asn	Leu	Glu	Asn	Val	Leu	Ala	Asp	Thr	Asp	Tyr	His	Lys	Phe			
145					150					155					160			
Phe	Ala	Ser	Val	Ala	Gly													
				165														

<210> 7509

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 7509

Ser	Gly	Asn	Phe	Met	Glu	Asn	Gln	Pro	Lys	Leu	Asn	Ser	Ser	Lys	Glu			
1				5					10					15				
Val	Ile	Ala	Phe	Leu	Ala	Glu	Arg	Phe	Pro	Gln	Cys	Phe	Ser	Ala	Glu			
			20					25					30					
Gly	Glu	Ala	Arg	Pro	Leu	Lys	Val	Gly	Ile	Phe	Gln	Asp	Leu	Val	Ala			
			35				40				45							
Arg	Val	Glu	Gly	Glu	Met	Asn	Leu	Ser	Lys	Thr	Gln	Leu	Arg	Ser	Ala			
			50			55					60							
Leu	Arg	Leu	Tyr	Thr	Ser	Ser	Trp	Arg	Tyr	Leu	Tyr	Gly	Ile	Lys	Pro			
65					70					75					80			
Gly	Ala	Thr	Arg	Val	Asp	Leu	Asp	Gly	Asn	Pro	Cys	Gly	Glu	Leu	Asp			
				85					90					95				
Glu	Gln	His	Val	Glu	His	Ala	Arg	Lys	Gln	Leu	Glu	Glu	Ala	Lys	Ala			
			100					105					110					
Arg	Val	Gln	Ala	Gln	Arg	Ala	Glu	Gln	Gln	Ala	Lys	Lys	Arg	Glu	Ala			
			115				120						125					

Ala Ala Ala Asn Gly Gln Glu Asp Ala Pro Arg Arg Glu Arg Lys Pro
 130 135 140
 Arg Pro Ala Pro Arg Arg Thr Glu Asn Asn Asp Arg Lys Pro Arg Ala
 145 150 155 160
 Val Phe Thr His Gly Pro Gly Arg Thr Ala Ile Ala
 165 170

<210> 7510

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7510

Arg Lys Gly Met Ile Val Met His Phe Thr Pro Ser Arg Val Ala Cys
 1 5 10 15
 Ala Leu Ala Phe Leu Leu Ser Ser Ala Thr Ala Thr Ser Ala Leu Ala
 20 25 30
 His Ala His Leu Lys Gln Gln Ser Pro Gln Glu Asn Thr Val Ala Val
 35 40 45
 Ala Pro Glu Val Ile Thr Leu Asn Phe Ser Glu Gly Ile Glu Pro Ala
 50 55 60
 Phe Ser Gly Val Val Val Thr Asp Ala Gln Gln His Lys Ile Gln Thr
 65 70 75 80
 Gly Ala Val Lys Arg Asp Glu Lys Asp Asn Ala Lys Leu Ile Val Pro
 85 90 95
 Leu Glu Lys Pro Leu Thr Thr Gly Thr Tyr Thr Val Asp Trp His Val
 100 105 110
 Val Ser Val Asp Gly His Lys Thr Lys Gly Ser Tyr His Phe Ser Val
 115 120 125
 Lys
 130

<210> 7511

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 7511

Arg Pro Gly Asn Lys Gly Leu Ile Ala Gln Arg Ser Leu Phe Pro Ala
 1 5 10 15
 Gly Leu Trp Phe Val Trp Ile Arg Glu Ile Arg Arg Gln Phe Met Thr
 20 25 30
 Phe Ser Val Ala Ala Ile Leu Leu Thr Gly Gly Val Ile Tyr Gln Lys
 35 40 45
 Ile Glu Gly Glu His Trp Arg His Val Trp Val Ala Ser Asp Ile His
 50 55 60
 Gly Cys Tyr Gln Trp Leu Met Asp Glu Leu Lys Arg Arg His Phe Asn
 65 70 75 80
 Pro Asp Thr Asp Leu Leu Ile Ser Val Gly Asp Ile Ile Asp Arg Gly
 85 90 95
 Pro Asp Ser Val Lys Cys Leu Gln Leu Met Gln Glu Asn Trp Phe Tyr
 100 105 110
 Ala Ile Arg Gly Asn His Glu Gln Met Ala Leu Asp Ala Leu Ile Asn
 115 120 125
 Asn Asp Phe Ser Leu Trp Ser Ile Asn Gly Gly Asn Trp Phe Thr Gly
 130 135 140
 Leu Lys Asp Ala Gln Gln Lys Gln Ala Lys Gly Leu Leu Asp Ala Cys
 145 150 155 160
 Arg Asp Leu Pro His Ile Ile Glu Ile Thr Cys Lys Asn Gly Leu Asn
 165 170 175
 Val Ile Ala His Ala Asp Tyr Pro Ser Ala Glu Tyr Gly Trp His Lys

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<210> 7512
<211> 72
<212> PRT
<213> Enterobacter cloacae
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<210> 7513
<211> 529
<212> PRT
<213> Enterobacter cloacae
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<400> 7513															
Lys 1	Phe	Asp	Glu	Lys 5	Arg	Asp	Thr	Val	Asp 10	Ser	Ile	Phe	Ser	Ile 15	Gly
Ile	Gln	Ser	Leu 20	Trp	Asp	Glu	Leu	Arg 25	His	Met	Pro	Val	Gly 30	Gly	Val
Trp	Trp	Val 35	Asn	Thr	Asp	Arg	Asn 40	Glu	Asp	Ala	Ile	Ser 45	Leu	Val	Asn
Gln	Thr 50	Ile	Ala	Ala	Gln	Gly 55	Lys	Asp	Ser	Arg	Val 60	Ala	Ile	Ile	Thr
Met 65	Gly	Asp	Glu	Pro	Lys 70	Ser	Ile	Ile	Arg	Leu 75	Asp	Ser	Asn	Arg	Gly 80
Pro	Gln	Thr	Val 85	Arg	Leu	Phe	Ser	Met	Pro 90	Ala	Glu	Ala	Asp 95	Ser	Leu
Tyr	Phe	Leu	Pro 100	Arg	Asp	Ile	Gln	Cys 105	Ser	Ile	Val	Pro	Glu 110	His	Tyr
Leu	Leu	Val 115	Leu	Lys	Cys	Ser	Asn 120	Asn	Gly	Leu	Gln	Asn 125	Ile	Pro	Ser
Glu	Lys 130	Leu	Leu	Lys	Trp	Leu 135	Glu	Arg	Ile	Asn 140	Arg	Trp	Ala	Lys	Asn
Gln 145	Asn	Cys	Thr	Leu	Leu 150	Val	Val	Asn	Pro	Gly 155	Ser	Asn	Asn	Asp 160	Lys
Leu	Phe	Ser	Leu 165	Leu	Met	Ser	Glu	Tyr	Arg 170	Ser	Leu	Tyr	Gly 175	Leu	Ala
Ser	Ile	Arg 180	Val	Gln	Thr	Asp	Ser	His 185	Leu	Tyr	Asp	Val	Ala 190	Phe	Trp
Cys	Asn	Glu 195	Lys	Gly	Val	Ser	Ser 200	Arg	Gln	Gln	Leu	Thr 205	Leu	Lys	His

Val	Gly	Asp	Glu	Trp	His	Leu	Ala	Gln	Gln	Glu	Glu	Thr	Val	Val	Gln
	210					215				220					
Pro	Arg	Ser	Asp	Glu	Lys	Arg	Val	Leu	Ser	His	Ile	Ala	Val	Leu	Glu
225					230					235					240
Gly	Ala	Pro	Ala	Leu	Ser	Glu	His	Trp	Ser	Leu	Phe	Asp	Thr	Asn	Glu
				245					250					255	
Ala	Leu	Phe	Asp	Glu	Ala	Arg	Thr	Thr	Gln	Ala	Ala	Thr	Ile	Ile	Phe
			260					265					270		
Ser	Leu	Ile	Gln	Asn	Asn	Gln	Ile	Glu	Thr	Leu	Ala	Arg	His	Ile	His
		275					280					285			
Thr	Leu	Arg	Arg	Gln	Arg	Gly	Ser	Ala	Leu	Lys	Ile	Val	Val	Arg	Glu
	290					295					300				
Asn	Asn	Thr	Ser	Leu	Arg	Ala	Thr	Asp	Glu	Arg	Leu	Leu	Leu	Gly	Cys
305					310					315					320
Gly	Ala	Asn	Met	Val	Ile	Pro	Trp	Asn	Ala	Pro	Leu	Ser	Arg	Cys	Leu
			325					330						335	
Thr	Leu	Ile	Glu	Ser	Ile	Gln	Gly	Gln	Gln	Phe	Asn	Arg	His	Val	Pro
			340					345					350		
Glu	Asp	Ile	Ser	Thr	Leu	Leu	Ser	Met	Thr	Gln	Pro	Met	Lys	Leu	Arg
		355					360					365			
Gly	Tyr	Gln	Lys	Trp	Asp	Thr	Phe	Cys	Asp	Ala	Val	Gly	Asn	Met	Met
	370					375					380				
Ser	Asn	Thr	Leu	Leu	Pro	Ala	Asp	Gly	Lys	Gly	Val	Met	Val	Ala	Leu
385					390					395					400
Arg	Pro	Val	Pro	Gly	Ile	Arg	Val	Glu	Gln	Ala	Leu	Thr	Leu	Cys	Arg
				405				410						415	
Pro	Asn	Arg	Ile	Gly	Asp	Ile	Met	Thr	Ile	Gly	Asp	Asn	Arg	Leu	Val
			420				425						430		
Leu	Phe	Leu	Ser	Phe	Cys	Arg	Val	Asn	Asp	Leu	Asp	Thr	Ala	Leu	Asn
		435					440					445			
His	Ile	Phe	Pro	Leu	Pro	Thr	Gly	Asp	Ile	Phe	Ser	Asn	Arg	Met	Val
	450					455					460				
Trp	Phe	Glu	Asp	Asn	Leu	Ile	Ser	Ala	Glu	Leu	Val	Gln	Met	Arg	Ala
465					470					475					480
Leu	Ala	Pro	Glu	Lys	Trp	Ala	Lys	Pro	Leu	Pro	Val	Thr	Ser	Gly	Ala
				485				490						495	
Lys	Pro	Val	Leu	Asn	Ala	Lys	His	Asp	Gly	His	Val	Trp	Arg	Arg	Val
		500						505					510		
Pro	Glu	Pro	Leu	Arg	Leu	Leu	Asp	Glu	Asn	Lys	Glu	Ser	Ala	Pro	Leu
		515					520					525			

<210> 7514

<211> 571

<212> PRT

<213> Enterobacter cloacae

<400> 7514

Val	Ala	Leu	Arg	Thr	Ser	Arg	Gln	Thr	Glu	Asn	Met	Thr	Asn	Ser	Thr
1				5					10					15	
Tyr	Thr	Ser	Ser	Ala	Pro	Ser	Pro	Leu	Trp	Gln	Tyr	Trp	Arg	Gly	Leu
			20					25					30		
Ser	Gly	Trp	Asn	Phe	Tyr	Phe	Leu	Val	Lys	Phe	Gly	Leu	Leu	Trp	Ala
		35					40					45			
Gly	Tyr	Leu	Asn	Phe	His	Pro	Leu	Leu	Asn	Leu	Val	Phe	Met	Ala	Phe
	50					55					60				
Leu	Leu	Met	Pro	Ile	Pro	Asn	Leu	Arg	Leu	His	Arg	Ile	Arg	His	Trp
65					70					75					80
Val	Ala	Ile	Pro	Ile	Gly	Phe	Ala	Leu	Phe	Trp	His	Asp	Thr	Trp	Leu
				85					90					95	

Pro	Gly	Pro	Glu	Ser	Ile	Met	Ser	Gln	Gly	Ser	Gln	Val	Ala	Gly	Phe
			100					105					110		
Ser	Ala	Asp	Tyr	Met	Leu	Asp	Leu	Val	Glu	Arg	Phe	Ile	Asn	Trp	Gln
		115					120					125			
Met	Ile	Gly	Ala	Val	Phe	Val	Leu	Leu	Val	Ala	Trp	Leu	Phe	Leu	Ser
	130					135					140				
Gln	Trp	Ile	Arg	Val	Thr	Val	Phe	Val	Val	Ala	Ile	Met	Ile	Trp	Leu
145					150					155					160
Asn	Val	Leu	Thr	Leu	Thr	Gly	Pro	Ser	Phe	Ser	Leu	Trp	Pro	Ala	Gly
			165						170					175	
Gln	Pro	Thr	Thr	Thr	Val	Thr	Thr	Thr	Gly	Gly	Ser	Ala	Ala	Ala	Thr
			180					185						190	
Val	Ala	Thr	Ala	Gly	Asp	Thr	Pro	Val	Val	Gly	Asp	Ile	Pro	Ala	Gln
		195					200					205			
Thr	Ala	Pro	Pro	Thr	Ser	Thr	Asn	Leu	Asn	Ala	Trp	Leu	Ser	Ser	Phe
	210					215					220				
Tyr	Ala	Ala	Glu	Asp	Lys	Arg	Gln	Thr	Lys	Phe	Pro	Asp	Ala	Leu	Pro
225					230					235					240
Ala	Asp	Ala	Gln	Pro	Phe	Glu	Leu	Leu	Val	Ile	Asn	Ile	Cys	Ser	Leu
				245					250					255	
Ser	Trp	Ala	Asp	Val	Asp	Ala	Ala	Gly	Leu	Met	Ser	His	Pro	Leu	Trp
			260					265						270	
Ser	His	Phe	Asp	Ile	Gln	Phe	Lys	Asp	Phe	Asn	Ser	Ala	Thr	Ser	Tyr
		275					280					285			
Ser	Gly	Pro	Ala	Ala	Ile	Arg	Leu	Leu	Arg	Ala	Ser	Cys	Gly	Gln	Pro
	290					295					300				
Ser	His	Lys	Asn	Leu	Tyr	Gln	Pro	Ala	Ala	Asn	Gln	Cys	Tyr	Leu	Phe
305					310					315					320
Asp	Asn	Leu	Ala	Lys	Leu	Gly	Phe	Thr	Gln	His	Leu	Met	Met	Gly	His
				325					330					335	
Asn	Gly	Gln	Phe	Gly	Asn	Phe	Leu	Lys	Glu	Val	Arg	Glu	Gln	Gly	Gly
			340					345					350		
Met	Gln	Ala	Pro	Leu	Met	Asp	Gln	Lys	Gly	Leu	Pro	Val	Thr	Leu	Leu
		355					360					365			
Gly	Phe	Asp	Gly	Ser	Pro	Val	Tyr	Asp	Asp	Thr	Ala	Val	Leu	Gln	Arg
	370					375					380				
Trp	Leu	Asp	Thr	Val	Gly	Lys	Glu	Glu	Gly	Thr	Arg	Ser	Ala	Thr	Phe
385					390					395					400
Tyr	Asn	Thr	Leu	Pro	Leu	His	Asp	Gly	Asn	His	Tyr	Pro	Gly	Val	Ser
				405					410					415	
Lys	Thr	Ala	Asp	Tyr	Lys	Ala	Arg	Ala	Gln	Lys	Phe	Phe	Asp	Glu	Leu
			420					425					430		
Asn	Ala	Phe	Phe	Asn	Glu	Leu	Glu	Lys	Ser	Gly	Arg	Lys	Val	Met	Val
		435					440					445			
Val	Val	Val	Pro	Glu	His	Gly	Gly	Ala	Leu	Lys	Gly	Asp	Arg	Met	Gln
		450				455					460				
Val	Ser	Gly	Leu	Arg	Asp	Ile	Pro	Ser	Pro	Ser	Ile	Thr	Asn	Val	Pro
465					470					475					480
Ala	Gly	Ile	Lys	Phe	Phe	Gly	Met	Lys	Ala	Pro	His	Gln	Gly	Ala	Pro
				485					490					495	
Val	Glu	Ile	Thr	Gln	Pro	Ser	Ser	Tyr	Leu	Ala	Ile	Ser	Glu	Leu	Val
			500					505					510		
Ala	Arg	Ala	Val	Asp	Gly	Lys	Leu	Phe	Val	Glu	Asp	Ser	Val	Asn	Trp
		515					520					525			
Asp	Gln	Leu	Thr	Ser	Gly	Leu	Pro	Gln	Thr	Ala	Glu	Val	Ser	Glu	Asn
	530					535					540				
Ala	Asn	Ala	Val	Val	Ile	Gln	Tyr	Gln	Asn	Lys	Pro	Tyr	Val	Arg	Leu
545					550					555					560
Asn	Ala	Gly	Asp	Trp	Val	Pro	Tyr	Pro	Gln						
				565					570						

<210> 7515
 <211> 338
 <212> PRT
 <213> Enterobacter cloacae

<400> 7515

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Ser Ser Leu Tyr Trp Pro Asn Gly Arg Ser Glu Cys Arg Gly Asp His
1      5      10      15
Cys Val Lys Asp Asn Thr Ile Pro Leu Thr Leu Ile Gly Ile Leu Ala
20
Asp Gly Glu Phe His Ser Gly Glu Gln Leu Gly Glu Gln Leu Gly Met
35      40      45
Ser Arg Ala Ala Ile Asn Lys His Ile Gln Thr Leu Arg Asp Trp Gly
50      55      60
Val Asp Val Phe Thr Val Pro Gly Lys Gly Tyr Ser Leu Pro Glu Pro
65      70      75      80
Ile Gln Leu Leu Asn Glu Glu Ile Ile Arg Ser Gln Ile Gly His Gly
85      90      95
Asn Val Ala Val Leu Pro Val Ile Asp Ser Thr Asn Gln Tyr Leu Leu
100      105      110
Asp Arg Leu Ser Glu Leu Lys Ser Gly Asp Ala Cys Val Ala Glu Tyr
115      120      125
Gln Gln Ala Gly Arg Gly Arg Arg Gly Arg Lys Trp Phe Ser Pro Phe
130      135      140
Gly Ala Asn Leu Tyr Leu Ser Met Tyr Trp Arg Leu Ala Gln Gly Pro
145      150      155      160
Ala Ala Ala Ile Gly Leu Ser Leu Val Ile Gly Ile Val Met Ala Glu
165      170      175
Val Leu His Asp Leu Gly Ala Asp Gln Val Arg Val Lys Trp Pro Asn
180      185      190
Asp Leu Tyr Leu Asn Asp Arg Lys Leu Ala Gly Ile Leu Val Glu Leu
195      200      205
Thr Gly Lys Thr Gly Asp Ala Ala Gln Ile Val Ile Gly Ala Gly Leu
210      215      220
Asn Met Val Met Arg Asn Val Gln Asn Asp Val Val Asn Gln Ala Trp
225      230      235      240
Thr Asn Leu Gln Glu Ala Gly Ile Thr Ile Asp Arg Asn Thr Leu Ala
245      250      255
Val Arg Met Ile Asn Glu Leu Arg Ser Ser Leu Thr Leu Phe Glu Gln
260      265      270
Glu Gly Leu Ala Pro Phe Leu Ser Arg Trp Glu Lys Leu Asp Asn Phe
275      280      285
Ile Asn Arg Pro Val Lys Leu Leu Ile Gly Asp Lys Glu Ile Tyr Gly
290      295      300
Thr Ser Arg Gly Ile Asp Ala Gln Gly Ala Leu Leu Leu Glu Gln Asp
305      310      315      320
Gly Val Ile Lys Pro Trp Val Gly Gly Glu Ile Ser Leu Arg Ser Ala
325      330      335
Glu

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<210> 7516
 <211> 881
 <212> PRT
 <213> Enterobacter cloacae

<400> 7516

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Thr Ala Gly Ala Cys Arg Glu Phe Ser Met Ser Arg Leu Thr Asn Trp
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Leu Leu Ile Pro Pro Val Ser Ser Arg Leu Ser Glu Arg Tyr Arg His
20      25      30

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Tyr	Arg	Tyr	His	Gly	Ala	Ser	Ser	Leu	Ser	Ala	Ala	Leu	Gly	Cys	Leu
		35					40					45			
Trp	Met	Ile	Leu	Ala	Trp	Met	Phe	Ile	Pro	Leu	Glu	His	Pro	Arg	Trp
	50					55					60				
Gln	Arg	Ile	Arg	Ala	Arg	His	Gly	Glu	Leu	Tyr	Pro	His	Ile	Asn	Pro
65					70					75					80
Asp	Lys	Pro	Arg	Pro	Leu	Asp	Pro	Ala	Arg	Tyr	Ala	Ile	Gln	Ser	Ile
				85					90					95	
Trp	Leu	Leu	Ala	Thr	Ser	Thr	Gly	Ala	Glu	Lys	Lys	Thr	Ser	Arg	Trp
			100					105					110		
Arg	Ser	Phe	Asp	Arg	Val	Gln	Asn	Leu	Arg	Glu	His	Tyr	His	Gln	Trp
		115					120					125			
Leu	Asp	Arg	Leu	Pro	Asp	Arg	Val	Gly	Asp	Lys	Thr	Gly	His	Leu	Asp
	130					135					140				
Asn	Gln	Lys	Glu	Leu	Gly	His	Leu	His	Pro	Gly	Leu	Arg	Arg	Phe	Ile
145					150					155					160
Leu	Gly	Val	Val	Val	Val	Phe	Ser	Leu	Ile	Leu	Ala	Leu	Val	Cys	Ile
				165					170					175	
Thr	Gln	Pro	Phe	Asn	Pro	Leu	Ala	Gln	Phe	Thr	Phe	Leu	Ile	Leu	Leu
			180					185					190		
Trp	Gly	Val	Ala	Leu	Leu	Val	Arg	Arg	Ile	Pro	Gly	Arg	Phe	Ser	Ala
		195					200					205			
Leu	Met	Leu	Ile	Val	Leu	Ser	Leu	Thr	Val	Ser	Cys	Arg	Tyr	Ile	Trp
	210					215					220				
Trp	Arg	Tyr	Thr	Ser	Thr	Leu	Asn	Trp	Asp	Asp	Pro	Val	Ser	Leu	Val
225					230					235					240
Cys	Gly	Leu	Val	Leu	Leu	Phe	Ala	Glu	Thr	Tyr	Ala	Trp	Ile	Val	Leu
				245					250					255	
Val	Leu	Gly	Tyr	Phe	Gln	Val	Ile	Trp	Pro	Leu	Asn	Arg	Gln	Pro	Val
			260					265					270		
Pro	Leu	Pro	Lys	Asp	Thr	Thr	Gln	Trp	Pro	Thr	Val	Asp	Leu	Phe	Val
		275					280					285			
Pro	Thr	Tyr	Asn	Glu	Asp	Leu	Ser	Val	Val	Lys	Asn	Thr	Ile	Tyr	Ala
	290					295					300				
Ala	Leu	Gly	Ile	Asp	Trp	Pro	Lys	Asp	Lys	Ile	Lys	Ile	Trp	Ile	Leu
305					310					315					320
Asp	Asp	Gly	Gly	Arg	Ala	Glu	Phe	Arg	Gln	Phe	Ala	Asp	Glu	Val	Gly
				325					330					335	
Val	Glu	Tyr	Ile	Ala	Arg	Thr	Thr	His	Glu	His	Ala	Lys	Ala	Gly	Asn
			340					345					350		
Ile	Asn	Asn	Ala	Leu	Lys	Tyr	Ala	Lys	Gly	Glu	Phe	Val	Ser	Ile	Phe
		355					360					365			
Asp	Cys	Asp	His	Val	Pro	Thr	Arg	Ser	Phe	Leu	Gln	Met	Thr	Met	Gly
	370					375					380				
Trp	Phe	Leu	Lys	Glu	Lys	Glu	Leu	Ala	Met	Met	Gln	Thr	Pro	His	His
385					390					395					400
Phe	Phe	Ser	Pro	Asp	Pro	Phe	Glu	Arg	Asn	Leu	Gly	Arg	Phe	Arg	Lys
				405					410					415	
Thr	Pro	Asn	Glu	Gly	Thr	Leu	Phe	Tyr	Gly	Leu	Val	Gln	Asp	Gly	Asn
			420					425					430		
Asp	Met	Trp	Asp	Ala	Thr	Phe	Phe	Cys	Gly	Ser	Cys	Ala	Val	Ile	Arg
		435					440					445			
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Glu	Asp	Ala	His	Thr	Ser	Leu	Arg	Leu	His	Arg	Leu	Gly	Tyr	Thr	Ser
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Ala	Tyr	Met	Arg	Ile	Pro	Gln	Ala	Ala	Gly	Leu	Ala	Thr	Glu	Ser	Leu
				485					490					495	
Ser	Ala	His	Ile	Gly	Gln	Arg	Ile	Arg	Trp	Ala	Arg	Gly	Met	Val	Gln
			500					505					510		
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		515					520					525			
Gln	Arg	Leu	Cys	Tyr	Val	Asn	Ala	Met	Phe	His	Phe	Leu	Ser	Gly	Ile
	530					535					540				
Pro	Arg	Leu	Ile	Phe	Leu	Thr	Ala	Pro	Leu	Ala	Phe	Leu	Leu	Leu	His
545					550					555					560
Ala	Tyr	Ile	Ile	Tyr	Ala	Pro	Ala	Leu	Met	Ile	Ala	Leu	Phe	Val	Leu
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Pro	His	Met	Ile	His	Ala	Ser	Leu	Thr	Asn	Ser	Lys	Ile	Gln	Gly	Lys
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Tyr	Arg	His	Ser	Phe	Trp	Ser	Glu	Ile	Tyr	Glu	Thr	Val	Leu	Ala	Trp
		595					600					605			
Tyr	Ile	Ala	Pro	Pro	Thr	Met	Val	Ala	Leu	Ile	Asn	Pro	His	Lys	Gly
	610					615					620				
Lys	Phe	Asn	Val	Thr	Ala	Lys	Gly	Gly	Leu	Val	Glu	Glu	Glu	Tyr	Val
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Asp	Trp	Val	Ile	Ser	Arg	Pro	Tyr	Ile	Phe	Leu	Val	Leu	Leu	Asn	Ile
				645					650					655	
Val	Gly	Val	Ile	Val	Gly	Ile	Trp	Arg	Tyr	Phe	Tyr	Gly	Pro	Glu	Asn
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Glu	Ile	Leu	Thr	Val	Phe	Val	Ser	Met	Ala	Trp	Val	Phe	Tyr	Asn	Leu
		675					680					685			
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	690					695					700				
Arg	Arg	Ala	His	Arg	Val	Glu	Ile	Ser	Met	Pro	Ala	Ala	Ile	Ala	Arg
705					710					715					720
Asp	Asp	Gly	His	Leu	Phe	Ser	Cys	Thr	Val	His	Asp	Phe	Ser	Asp	Gly
				725					730					735	
Gly	Leu	Gly	Ile	Lys	Ile	Asn	Gly	Gln	Ala	Lys	Val	Leu	Glu	Gly	Gln
			740				745						750		
Lys	Val	Asn	Leu	Leu	Leu	Lys	Arg	Gly	Gln	Gln	Glu	Tyr	Val	Phe	Pro
		755					760					765			
Thr	Gln	Val	Val	Arg	Val	Arg	Gly	Asn	Glu	Val	Gly	Leu	Gln	Leu	Met
	770					775					780				
Pro	Leu	Thr	Lys	Lys	Gln	His	Ile	Asp	Phe	Val	Gln	Cys	Thr	Phe	Ala
785					790					795					800
Arg	Ala	Asp	Thr	Trp	Ala	Leu	Trp	Gln	Asp	Ser	Phe	Pro	Glu	Asp	Lys
				805					810					815	
Pro	Leu	Glu	Ser	Leu	Leu	Asp	Ile	Leu	Lys	Leu	Gly	Phe	Arg	Gly	Tyr
			820					825					830		
Arg	His	Leu	Ala	Glu	Phe	Ala	Pro	Ser	Ser	Val	Lys	Leu	Ile	Phe	Arg
		835					840					845			
Ser	Leu	Thr	Ser	Leu	Val	Ser	Trp	Val	Val	Ser	Phe	Ile	Pro	Arg	Arg
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<210> 7517

<211> 1169

<212> PRT

<213> Enterobacter cloacae

<400> 7517

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			20				25					30			
Asn	Ser	Pro	Gln	Gln	Arg	Gln	Leu	Leu	Glu	Gln	Val	Arg	Leu	Gly	Glu
		35				40					45				
Ser	Thr	Gln	Arg	Glu	Asp	Leu	Val	Arg	Gln	Ser	Leu	Tyr	Arg	Leu	Glu

	50					55					60					
Leu 65	Ile	Asp	Pro	Asn	Asn 70	Pro	Asp	Val	Ile	Ala 75	Ala	Arg	Phe	Arg	Tyr 80	
Leu	Leu	Arg	Gln	Gly 85	Asp	Thr	Ala	Gly	Ala 90	Gln	Lys	Glu	Leu	Asp 95	Arg	
Leu	Lys	Gly	Met 100	Ala	Ala	Asp	Ser	Ser 105	Ala	Tyr	Gln	Ser	Ser 110	Arg	Thr	
Thr	Met	Leu 115	Leu	Ser	Thr	Pro	Asp 120	Gly	Arg	Gln	Ala	Leu 125	Gln	Gln	Ala	
Arg	Leu 130	Leu	Ala	Thr	Thr	Gly 135	His	Thr	Gln	Glu	Ala 140	Ile	Ala	Ala	Tyr	
Asp 145	Lys	Leu	Phe	Asp	Gly 150	Lys	Pro	Pro	Ser	Gly 155	Asp	Ile	Ala	Thr	Glu 160	
Tyr	Trp	Asn	Val 165	Val	Ala	Lys	Glu	Pro	Ala 170	Arg	Arg	Asn	Leu 175	Ala	Ile	
Asn	Gln	Leu 180	Lys	Lys	Ile	Asn	Ala	Ser 185	Ser	Pro	Gly	Asn 190	Val	Pro	Leu	
Gln	Ser	Ser 195	Leu	Ala	Gln	Leu	Leu 200	Phe	Gln	Ser	Gly 205	Arg	Arg	Asp	Glu	
Gly	Phe 210	Ala	Val	Leu	Gln	Glu 215	Met	Ala	Lys	Ser	Asn 220	Asn	Gly	Arg	Ser	
Gln 225	Ala	Ser	Asp	Met 230	Trp	Tyr	Gln	Gln	Ile	Lys 235	Asp	Gln	Pro	Val	Ser 240	
Ser	Ala	Ser	Val 245	Thr	Ala	Leu	Gln	Gln	Tyr 250	Leu	Ser	Val	Phe	Ser 255	Asp	
Gly	Asp	Asn 260	Val	Thr	Ala	Ala	Arg	Thr 265	Gln	Leu	Glu	Ala 270	Gln	Gln	Lys	
Gln	Leu 275	Ala	Asp	Pro	Ala	Phe	Arg	Ala 280	Lys	Ala	Glu	Gly 285	Leu	Ala	Ala	
Val 290	Asp	Ala	Gly	Gln	Gly	Ser 295	Lys	Ala	Val	Thr	Glu 300	Leu	Gln	Lys	Ala	
Val 305	Ser	Ala	Asn	His 310	Ala	Asp	Ser	Glu	Ala 315	Val	Gly	Ala	Leu	Gly	Gln 320	
Ala	Tyr	Ser	Gln 325	Lys	Gly	Asp	Arg	Ala	Arg 330	Ala	Val	Ala	Gln	Phe 335	Glu	
Lys	Ala	Ile 340	Ala	Leu	Asp	Pro	Gln	Ser 345	Asp	Asn	Arg	Gly	Lys 350	Trp	Asp	
Ser	Leu 355	Leu	Lys	Val	Asn	Arg	Tyr	Trp 360	Leu	Leu	Ile	Gln 365	Gln	Gly	Asp	
Asn 370	Ala	Leu	Lys	Ala	Asn 375	Asn	Thr	Ala	Gln	Ala	Glu 380	Arg	Tyr	Tyr	Gln	
Gln 385	Ala	Arg	Asn	Ile 390	Asp	Asn	Thr	Asp	Ser	Tyr 395	Ala	Val	Leu	Gly	Leu 400	
Gly	Asp	Ala	Ala 405	Ala	Ala	Arg	Lys	Asp	Asn 410	Asp	Ala	Ala	Glu	Arg 415	Tyr	
Tyr	Arg	Gln 420	Ala	Leu	Arg	Met	Asp	Ser 425	Gly	Asn	Ser	Asn 430	Ala	Val	Arg	
Gly	Leu 435	Ala	Asn	Ile	Tyr	Arg	Ala 440	Gln	Ser	Pro	Glu	Lys 445	Ala	Thr	Gln	
Phe 450	Ile	Gln	Ser	Leu	Ser 455	Ala	Ser	Gln	Arg	Arg	Ser 460	Ile	Asp	Asp	Ile	
Glu 465	Arg	Ser	Leu	Thr 470	Asn	Glu	Gln	Leu	Ser	Ala 475	Gln	Ala	Glu	Gln	Leu 480	
Glu	Ser	Glu	Gly 485	Lys	Tyr	Ala	Gln	Ala 490	Ala	Glu	Ile	Gln	Arg	Arg 495	Arg	
Leu	Ala	Leu 500	Ser	Pro	Gly	Asp	Val	Trp 505	Ile	Thr	Tyr	Arg	Leu 510	Ser	Arg	
Asp	Leu 515	Tyr	Ser	Ala	Gly	Gln	Arg 520	Ser	Gln	Ala	Asp	Asn 525	Leu	Met	Arg	
Gln	Leu 530	Ala	Ser	Gln	Lys	Pro 535	Gly	Asp	Pro	Asp	Gln 540	Val	Tyr	Ala	Ser	

Gly	Leu	Tyr	Leu	Ser	Gly	Asn	Asp	Gln	Asp	Arg	Ala	Ala	Leu	Ala	His
545					550				555						560
Leu	Asn	Thr	Leu	Pro	Arg	Asp	Lys	Trp	Asn	Gly	Asn	Ile	Gln	Ala	Leu
				565					570						575
Ala	Asp	Arg	Leu	Gln	Ser	Asn	Gln	Val	Leu	Glu	Thr	Ala	Asn	Arg	Leu
			580					585					590		
Arg	Asp	Ser	Gly	Lys	Glu	Gln	Glu	Ala	Glu	Thr	Leu	Leu	Arg	Gln	Gln
	595						600					605			
Pro	Pro	Ser	Thr	Arg	Ile	Asp	Leu	Thr	Leu	Ala	Asp	Trp	Ala	Glu	Gln
	610					615					620				
Arg	Gly	Asp	His	Glu	Ala	Ala	Lys	Thr	Ala	Tyr	Asn	Thr	Ile	Leu	Gln
625					630					635					640
Arg	Glu	Pro	Gln	Asn	Glu	Asp	Ala	Ile	Leu	Gly	Leu	Thr	Glu	Val	Ser
				645					650					655	
Leu	Ala	Gln	Gly	Asn	Lys	Asp	Ala	Ala	Arg	Ala	Ala	Leu	Ala	Lys	Leu
			660					665					670		
Pro	Ala	Ala	Gln	Asn	Gly	Glu	Pro	Leu	Ser	Ile	Asn	Met	Gln	Arg	Arg
			675				680					685			
Leu	Ala	Met	Ala	Gln	Ala	Gly	Leu	Gly	Asp	Pro	Ala	Ala	Ala	Glu	Lys
	690					695				700					
Thr	Phe	Asn	Ala	Ile	Leu	Pro	Gln	Ala	Lys	Ser	Gln	Pro	Pro	Ser	Met
705					710					715					720
Glu	Ser	Ala	Leu	Val	Met	Arg	Asp	Ala	Ala	Arg	Phe	Gln	Ala	Gln	Asn
				725					730					735	
Gly	Gln	Pro	Gln	Gln	Ala	Leu	Asp	Thr	Trp	Lys	Asp	Ala	Met	Val	Ser
			740					745					750		
Ser	Gly	Ile	Thr	Thr	Thr	Arg	Pro	Thr	Asp	Asn	Asp	Ser	Phe	Thr	Arg
	755						760					765			
Leu	Thr	Arg	Asn	Asp	Glu	Lys	Asp	Asp	Trp	Leu	Lys	Arg	Gly	Val	Arg
	770					775					780				
Ser	Asp	Ala	Gly	Asp	Leu	Tyr	Arg	Gln	Gln	Asp	Leu	Asn	Val	Thr	Leu
785					790					795					800
Gln	His	Asp	Tyr	Trp	Gly	Ser	Ser	Gly	Thr	Gly	Gly	Tyr	Ser	Asp	Leu
				805					810					815	
Lys	Ala	His	Thr	Thr	Met	Leu	Gln	Val	Asp	Ala	Pro	Leu	Ser	Asp	Gly
			820					825					830		
Arg	Met	Phe	Phe	Arg	Ser	Asp	Leu	Val	Asn	Met	Asn	Ala	Gly	Ser	Phe
	835						840					845			
Asp	Thr	Asp	Asn	Gly	Thr	Tyr	Asp	Pro	Thr	Trp	Gly	Thr	Cys	Ala	Glu
	850					855					860				
Thr	Pro	Cys	His	Gly	Ser	Thr	Asn	Gln	Ser	Ala	Asn	Gly	Ala	Ser	Val
865					870					875					880
Ala	Val	Gly	Trp	Gln	Asn	Lys	Thr	Trp	Ala	Trp	Asp	Ile	Gly	Thr	Thr
				885					890					895	
Pro	Met	Gly	Phe	Asp	Val	Val	Asp	Val	Val	Gly	Ser	Leu	Ser	Tyr	Ser
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Asn	Asp	Leu	Gly	Pro	Ile	Gly	Tyr	Thr	Leu	Asn	Ala	His	Arg	Arg	Pro
	915						920					925			
Ile	Ser	Ser	Ser	Val	Leu	Ala	Phe	Ala	Gly	Gln	Lys	Asp	Pro	Asn	Thr
	930					935					940				
Asp	Thr	Thr	Trp	Gly	Gly	Val	Arg	Ala	Thr	Gly	Gly	Gly	Val	Ser	Met
945					950					955					960
Ser	Tyr	Asp	Lys	Gly	Glu	Ala	Asn	Gly	Ile	Trp	Ser	Ser	Leu	Ser	Ala
				965					970					975	
Asp	Ser	Leu	Thr	Gly	Lys	Asn	Val	Glu	Asp	Asn	Trp	Arg	Val	Arg	Trp
			980					985					990		
Met	Thr	Gly	Tyr	Tyr	Tyr	Lys	Leu	Ile	Asn	Gln	Asn	Asn	Glu	Arg	Leu
			995				1000					1005			
Thr	Val	Gly	Val	Ser	Asn	Met	Leu	Trp	His	Tyr	Asp	Lys	Asp	Leu	Ser
	1010					1015					1020				
Gly	Tyr	Ser	Leu	Gly	Gln	Gly	Gly	Tyr	Tyr	Ser	Pro	Gln	Glu	Tyr	Val

1025					1030					1035				1040	
Ser	Phe	Ala	Leu	Pro	Val	Asn	Trp	Arg	Lys	Arg	Thr	Glu	Asn	Trp	Ser
				1045					1050					1055	
Trp	Glu	Leu	Gly	Gly	Ser	Val	Ser	Trp	Ser	His	Ser	Lys	Thr	Lys	Asp
			1060					1065					1070		
Val	Met	Arg	Tyr	Pro	Leu	Gln	Gly	Leu	Ile	Pro	Asp	Asn	Glu	Pro	Gly
		1075					1080				1085				
Arg	Tyr	Thr	Asp	Lys	Gly	Val	Met	Glu	Thr	Gly	Ser	Ser	Ser	Ser	Gly
	1090					1095				1100					
Thr	Gly	Tyr	Thr	Ala	Arg	Ala	Ile	Val	Glu	Arg	Val	Thr	Ser	Asn	
1105				1110					1115					1120	
Trp	Phe	Val	Gly	Leu	Gly	Val	Asp	Ile	Gln	Glu	Ala	Lys	Asp	Tyr	Thr
			1125					1130					1135		
Pro	Ser	His	Ala	Leu	Leu	Tyr	Val	Arg	Tyr	Ser	Ala	Ala	Gly	Trp	Gln
		1140					1145				1150				
Gly	Asp	Met	Asp	Leu	Pro	Pro	Glu	Pro	Leu	Val	Pro	Tyr	Ala	Asp	Trp
	1155						1160					1165			

<210> 7518

<211> 700

<212> PRT

<213> Enterobacter cloacae

<400> 7518

Val	Cys	Leu	Lys	Ser	Ala	Ala	Ile	Gly	Tyr	Thr	Arg	Thr	His	Gln	Val
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			20					25					30		
Arg	Val	Ser	Arg	Ser	Leu	Thr	Ile	Lys	Gln	Met	Ala	Met	Val	Ser	Ala
		35					40					45			
Val	Thr	Met	Leu	Phe	Val	Phe	Ile	Phe	Cys	Val	Ile	Leu	Leu	Phe	His
	50					55				60					
Ser	Val	Gln	Gln	Asn	Arg	Tyr	Asn	Thr	Ala	Ser	Gln	Leu	Gly	Ser	Ile
65				70					75					80	
Ala	Arg	Ser	Val	Arg	Glu	Pro	Leu	Ser	Ala	Ser	Ile	Leu	Lys	Gly	Asp
			85					90					95		
Ile	Pro	Glu	Ala	Glu	Ser	Ile	Leu	Lys	Arg	Ile	Gln	Pro	Ala	Gly	Ile
			100					105					110		
Val	Ser	Arg	Ala	Asp	Val	Val	Leu	Pro	Asn	Gln	Phe	Gln	Ala	Leu	Arg
	115						120					125			
Met	Ser	Phe	Ile	Pro	Glu	Arg	Ser	Val	Pro	Met	Met	Val	Met	Arg	Leu
	130					135				140					
Phe	Glu	Leu	Pro	Val	Gln	Ile	Ser	Leu	Pro	Leu	Tyr	Ser	Leu	Glu	Arg
145					150				155					160	
Pro	Ala	Asn	Pro	Gln	Pro	Leu	Ala	Tyr	Leu	Val	Leu	Gln	Ala	Asp	Ser
			165					170						175	
Tyr	Arg	Met	Tyr	Lys	Phe	Val	Met	Ser	Trp	Val	Ala	Thr	Leu	Val	Thr
		180					185						190		
Thr	Tyr	Leu	Leu	Leu	Thr	Leu	Met	Leu	Ser	Val	Ala	Leu	Thr	Trp	Cys
	195						200					205			
Ile	Asn	Arg	Leu	Ile	Val	His	Pro	Leu	Arg	Arg	Ile	Ala	Arg	Glu	Leu
	210					215					220				
Asn	Asp	Leu	Ser	Pro	Gln	Glu	His	Met	Gly	His	Gln	Leu	Pro	Leu	Pro
225					230				235					240	
Arg	Leu	His	His	Asp	Asp	Glu	Ile	Gly	Met	Leu	Val	Arg	Ser	Tyr	Asn
			245					250						255	
Ile	Asn	Gln	Gln	Arg	Val	Leu	Arg	Gln	Gln	Glu	Glu	Leu	Ser	Ser	Asn
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<210> 7519
<211> 189
<212> PRT
<213> Enterobacter cloacae
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<400> 7519
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			20					25					30	
Gly	Ile	Leu	Leu	Gly	His	Tyr	Tyr	Pro	Glu	Leu	Gly	Ala	Gln	Met
		35					40					45		Lys
Pro	Leu	Gly	Asp	Ala	Phe	Val	Lys	Leu	Ile	Lys	Met	Ile	Ile	Ala
	50					55					60			Pro
Val	Ile	Phe	Cys	Thr	Val	Val	Thr	Gly	Ile	Ala	Gly	Met	Glu	Ser
65					70					75				80
Lys	Ala	Val	Gly	Arg	Thr	Gly	Ala	Val	Ala	Leu	Leu	Tyr	Phe	Glu
				85				90					95	Ile
Val	Ser	Thr	Ile	Ala	Leu	Ile	Ile	Gly	Leu	Ile	Ile	Val	Asn	Val
			100					105					110	Val
Gln	Pro	Gly	Ala	Gly	Met	Asn	Val	Asp	Pro	Ala	Thr	Leu	Asp	Ala
		115					120					125		Lys
Ala	Val	Ala	Val	Tyr	Ala	Glu	Gln	Ala	Lys	Asp	Gln	Gly	Ile	Val
	130					135					140			Ala
Phe	Leu	Leu	Asp	Val	Ile	Pro	Ser	Ser	Val	Ile	Gly	Ala	Phe	Ala
145					150				155					Ser
Gly	Asn	Ile	Leu	Gln	Val	Leu	Leu	Phe	Ala	Val	Leu	Phe	Gly	Phe
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Leu	His	Gln	Gln	Gly	Ala	Glu	Gly	Ser	Ala	His	Ala	Arg		
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<210> 7520

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 7520

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Leu	Phe	Ala	Phe	Leu	His	Leu	Leu	Pro	Phe	His	Lys	Gln	Ile	Thr	Tyr
			20					25					30		
Pro	Pro	Ile	Tyr	Thr	Val	Asn	Tyr	Pro	Gly	Phe	Cys	Ile	Arg	Ile	Ala
		35					40					45			
Ser	Met	Asn	His	Ser	Leu	Lys	Pro	Trp	Asn	Thr	Phe	Gly	Ile	Gln	Arg
	50					55					60				
Asn	Ala	Asn	Gln	Ile	Val	Arg	Ala	Glu	Ser	Ala	Gln	Gln	Leu	Leu	Asn
65					70					75					80
Ala	Trp	Gln	Asn	Ala	Thr	Gly	Asn	Gly	Glu	Pro	Val	Leu	Ile	Leu	Gly
			85					90					95		
Glu	Gly	Ser	Asn	Val	Leu	Phe	Leu	Asp	Asp	Phe	Ala	Gly	Thr	Val	Ile
			100					105					110		
Val	Asn	Arg	Ile	Met	Gly	Ile	Glu	Cys	Lys	Glu	Ser	Ala	Asp	Ser	Trp
	115						120					125			
His	Leu	His	Val	Gly	Ala	Gly	Glu	Asn	Trp	His	His	Leu	Val	Gln	Tyr
	130					135					140				
Thr	Leu	Glu	Lys	Gly	Met	Pro	Gly	Leu	Glu	Asn	Leu	Ala	Leu	Ile	Pro
145					150					155					160
Gly	Cys	Ala	Gly	Ser	Ser	Pro	Ile	Gln	Asn	Ile	Gly	Ala	Tyr	Gly	Ile
				165					170					175	
Glu	Leu	Lys	His	Val	Cys	Glu	Tyr	Val	Asp	Cys	Ile	Glu	Leu	Ala	Thr
			180					185					190		
Gly	Thr	Ala	Lys	Arg	Leu	Thr	Ala	Glu	Gln	Cys	Arg	Phe	Gly	Tyr	Arg
	195						200					205			
Asp	Ser	Ile	Phe	Lys	His	Asp	Tyr	Gln	Asp	Arg	Phe	Val	Ile	Val	Ala
	210					215					220				
Val	Gly	Leu	Arg	Leu	Ala	Lys	Ala	Trp	Lys	Pro	Val	Leu	Thr	Tyr	Gly
225				230						235					240
Asp	Leu	Thr	Arg	Leu	Asp	Pro	Ala	Thr	Val	Thr	Pro	Arg	Glu	Val	Phe

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<210> 7521
<211> 261
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7522

<211> 847

<212> PRT

<213> Enterobacter cloacae

<400> 7522

Phe	Ser	Gly	His	Leu	Leu	His	Trp	Phe	Pro	Gly	Ser	Cys	Arg	Ser	Phe
1			5					10					15		
Arg	Val	Asp	Leu	Ser	Glu	Met	Lys	Arg	Ser	Arg	Arg	Thr	Arg	Leu	Trp
		20						25					30		
Leu	Asn	Asn	Asp	Asp	Asn	Ala	Met	Lys	Thr	Lys	Leu	Ser	Trp	Leu	Cys
		35					40					45			
Ala	Val	Ala	Met	Gly	Met	Ser	Ala	Leu	Pro	Ala	Thr	Val	Ala	Asn	Ala
		50				55					60				
Ala	Pro	Asp	Asn	Ala	Ala	Thr	Thr	Pro	Ala	Pro	Thr	Val	Pro	Val	Val
65				70					75						80
Ala	Gln	Ala	Thr	Asp	Pro	Val	Val	Thr	Ala	Ala	Pro	Gly	Gln	Thr	Glu
			85						90					95	
Asn	Val	Val	Pro	Asn	Gln	Pro	Thr	Thr	Gly	Asn	Thr	Leu	Pro	Gly	Asp
			100					105					110		
Asn	Pro	Val	Val	Gly	Gln	Val	Met	Pro	Gly	Val	Pro	Gly	Ala	Ser	Ala
		115					120					125			
Pro	Val	Val	Ala	Glu	Asn	Thr	Pro	Ser	Arg	Asp	Val	Lys	Leu	Thr	Phe
		130				135					140				
Ala	Gln	Ile	Ala	Pro	Pro	Pro	Gly	Ser	Met	Val	Leu	Arg	Gly	Ile	Asn
145					150					155					160
Pro	Asn	Gly	Gly	Ile	Glu	Phe	Gly	Met	Arg	Ser	Asp	Glu	Val	Val	Ser
			165					170						175	
Lys	Ala	Met	Leu	Asn	Leu	Glu	Tyr	Thr	Pro	Ser	Pro	Ser	Leu	Leu	Pro
		180						185					190		
Val	Gln	Ser	Gln	Leu	Lys	Val	Tyr	Leu	Asn	Asp	Glu	Leu	Met	Asp	Val
		195					200					205			
Leu	Pro	Val	Thr	Lys	Glu	Gln	Leu	Gly	Lys	Lys	Thr	Leu	Ala	Gln	Val
		210				215					220				
Pro	Ile	Asn	Pro	Leu	Phe	Ile	Thr	Asp	Phe	Asn	Arg	Val	Arg	Leu	Glu
225					230					235					240
Phe	Val	Gly	His	Tyr	Arg	Asp	Val	Cys	Glu	Asn	Pro	Ala	Ser	Ser	Thr
			245						250					255	
Leu	Trp	Leu	Asp	Val	Gly	Arg	Asn	Ser	Ser	Leu	Gln	Met	Thr	Tyr	Gln
			260					265					270		
Pro	Leu	Ala	Leu	Lys	Asn	Asp	Leu	Ser	Ala	Phe	Pro	Val	Pro	Phe	Phe
		275					280					285			
Asp	Pro	Arg	Asp	Asn	Arg	Pro	Leu	Asn	Leu	Pro	Met	Val	Phe	Ala	Gly
		290				295					300				
Ser	Pro	Asp	Val	Thr	Glu	Gln	Leu	Ala	Ala	Ser	Ile	Val	Ala	Ser	Trp
305					310					315					320
Phe	Gly	Ser	Arg	Ser	Gly	Trp	Arg	Gly	Gln	Ser	Phe	Pro	Val	Met	Tyr
			325						330					335	
Asp	Lys	Met	Pro	Asp	Lys	Asn	Ala	Ile	Val	Phe	Ala	Thr	Asn	Ala	Lys
			340					345					350		
Arg	Pro	Ala	Phe	Leu	Arg	Asp	His	Pro	Glu	Val	Lys	Ala	Pro	Thr	Ile
		355					360					365			
Glu	Met	Ile	Ser	His	Pro	Asp	Asn	Pro	Tyr	Val	Lys	Leu	Leu	Val	Ile
		370				375					380				
Phe	Gly	Arg	Asp	Asp	Lys	Asp	Leu	Val	Gln	Ala	Ala	Lys	Gly	Ile	Ala
385					390					395					400
Gln	Gly	Asn	Ile	Leu	Phe	Arg	Gly	Asn	Ser	Val	Val	Val	Asp	Glu	Val
			405						410					415	
Lys	Pro	Leu	Leu	Ala	Arg	Lys	Pro	Tyr	Asp	Ala	Pro	Asn	Trp	Val	Arg
		420						425					430		
Thr	Asp	Arg	Ala	Ile	Thr	Phe	Gly	Glu	Leu	Lys	Thr	Tyr	Glu	Glu	Gln

435 440 445
 Leu Gln Ser Thr Gly Leu Glu Pro Ser Pro Val Ser Leu Ser Leu Asn
 450 455 460
 Leu Pro Pro Asp Leu Tyr Leu Leu Arg Thr Asn Gly Ile Asp Ile Asn
 465 470 475 480
 Leu Asn Tyr Arg Tyr Thr Ala Pro Ala Thr Lys Asp Ser Ser Arg Met
 485 490 495
 Asp Ile Ser Leu Asn Asn Gln Phe Leu Gln Ser Phe Ser Leu Thr Ser
 500 505 510
 Ser Gln Glu Thr Asn Arg Leu Met Leu Arg Leu Pro Val Leu Gln Gly
 515 520 525
 Leu Leu Asp Gly Lys Thr Asp Val Ser Ile Pro Ala Leu Lys Leu Gly
 530 535 540
 Ala Val Asn Gln Leu Arg Phe Asn Phe Gln Tyr Met Asn Pro Met Pro
 545 550 555 560
 Gly Gly Ser Val Glu Asn Cys Ile Thr Phe Gln Pro Val Gln Asn His
 565 570 575
 Val Val Ile Gly Asp Asp Ser Thr Ile Asp Phe Ser Lys Tyr Tyr His
 580 585 590
 Phe Ile Ala Met Pro Asp Leu Arg Ala Phe Ala Asn Ala Ser Phe Pro
 595 600 605
 Phe Ser Arg Met Ala Asp Leu Ser Glu Ser Ile Val Val Met Pro Lys
 610 615 620
 Ala Ala Asn Glu Gly Gln Val Ala Thr Leu Leu Asp Thr Met Gly Thr
 625 630 635 640
 Val Gly Ala Gln Thr Gly Leu Pro Ala Ile Asn Val Thr Val Thr Asp
 645 650 655
 Asp Gly Ser Gln Ile Gln Asn Lys Asp Ala Asp Ile Met Val Ile Gly
 660 665 670
 Asn Ile Pro Asp Lys Leu Lys Asp Glu Lys Arg Val Asp Leu Leu Val
 675 680 685
 Gln Ala Ala Gln Ser Trp Val Asn Thr Pro Leu Arg Gln Thr Glu Phe
 690 695 700
 Pro Ser Ile Met Pro Asp Ser Gly Asp Arg Gln Ala Asn Ile Arg Thr
 705 710 715 720
 Thr Val Ser Ser Thr Gly Pro Met Ala Ala Ile Val Gly Phe Gln Ser
 725 730 735
 Pro Tyr Asn Asp Gln Arg Ser Val Ile Ala Leu Leu Ala Asp Ser Pro
 740 745 750
 Arg Gly Tyr Glu Leu Leu Asn Thr Ala Met Asn Asp Ser Gly Lys Arg
 755 760 765
 Ala Ala Met Phe Gly Ser Val Ser Val Ile Arg Glu Ser Gly Val Asn
 770 775 780
 Ser Leu Arg Val Gly Asp Val Tyr Tyr Val Gly His Leu Pro Trp Phe
 785 790 795 800
 Glu Arg Leu Trp Tyr Ala Leu Ser Asn His Pro Val Leu Leu Ala Val
 805 810 815
 Leu Ala Ala Leu Ser Val Val Leu Leu Ala Trp Val Leu Trp Arg Leu
 820 825 830
 Leu Arg Ile Ile Ser Arg Arg Arg Leu Asn Pro Asp His Glu
 835 840 845

<210> 7523

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 7523

Ala Val Met Lys Ile Phe Arg Gly Cys Val Val Ala Ala Leu Met Leu
 1 5 10 15
 Ala Ala Ala Asn Leu His Ala Ala Cys Arg Trp Pro Ala Trp Glu Thr

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<210> 7524
<211> 83
<212> PRT
<213> Enterobacter cloacae
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Trp	Ala	Gly	Arg	Leu	Ala	Ala	Ser	Glu	Ser	Tyr	Asp	Phe	Thr	Gln	Arg
1				5					10					15	
Asp	Glu	Lys	Arg	Met	Gln	Asn	Asn	Glu	Pro	Ala	Thr	Pro	Val	Asp	Ser
			20					25					30		
Ser	Leu	Gly	Tyr	Thr	Phe	Gln	Asn	Asp	Phe	Leu	Ala	Leu	Thr	Gln	Ala
		35					40					45			
Phe	Ser	Leu	Pro	Glu	Ile	Asp	Tyr	Thr	Asp	Ile	Ser	Gln	Arg	Glu	Gln
	50					55				60					
Leu	Ala	Ala	Ala	Ile	Lys	Arg	Trp	Pro	Leu	Leu	Ala	Glu	Phe	Ala	Gln

65
Gln Gln

70

75

80

<210> 7525
<211> 116
<212> PRT
<213> Enterobacter cloacae

<400> 7525
Arg Asn Leu Arg Ser Asp Met Gly Tyr Leu Cys Arg Asn Ala Met Ser
1 5 10 15
Arg Gln His Glu Pro Val Gly Gln Arg Gln Arg Gly Arg Arg Leu
20 25 30
Ala Glu Gln Asn Leu Gly Val Gly Tyr Arg Tyr Asn Ala Asp Gly Leu
35 40 45
Arg Arg Gly Arg Cys Gly Gly Gln Pro Glu Leu Gln Gln Arg Phe Arg
50 55 60
Ala Asp Trp Leu His Pro Glu Arg Pro Ser Pro Ser Asp Phe Gln Leu
65 70 75 80
Gly Ala Gly Leu Arg Arg Ala Lys Arg Ser Gln Tyr Arg His His Leu
85 90 95
Gly Arg Arg Ala Cys His Arg Trp Arg Arg Glu His Glu Leu Arg Gln
100 105 110
Arg Arg Ser
115

<210> 7526
<211> 340
<212> PRT
<213> Enterobacter cloacae

<400> 7526
Val Arg Cys Met Ser Pro Thr Ile Tyr Asp Ile Ala Arg Val Ala Gly
1 5 10 15
Val Ser Lys Ser Thr Val Ser Arg Val Leu Asn Lys Gln Thr Asn Ile
20 25 30
Ser Pro Glu Ala Arg Glu Lys Val Leu Lys Ala Ile Glu Glu Leu Asn
35 40 45
Tyr Gln Pro Asn Lys Leu Ala Arg Ala Leu Thr Ser Ser Gly Phe Asp
50 55 60
Ala Ile Met Val Ile Ser Thr Arg Ser Thr Lys Thr Thr Ala Gly Asn
65 70 75 80
Pro Phe Phe Ser Asp Val Leu His Ala Ile Thr Ala Lys Ala Glu Glu
85 90 95
Glu Gly Phe Asp Val Ile Leu Gln Thr Ser Lys Ser Ser Glu Asp Asp
100 105 110
Leu Gln Lys Cys Val Gly Lys Ile Lys Gln Lys Met Ile Lys Gly Ile
115 120 125
Ile Met Leu Ser Ser Pro Ala Asn Glu Ser Phe Phe Ala Thr Leu Asp
130 135 140
Glu Tyr Gly Val Pro Val Val Val Ile Gly Lys Val Glu Gly Asn Tyr
145 150 155 160
Gln Asn Ile Tyr Ser Val Asp Thr Asp Asn Phe His Asp Ser Ala Ile
165 170 175
Leu Thr Asp Ser Phe Ile Lys His Gly Arg Thr Lys Ile Ala Cys Leu
180 185 190
His Ala Pro Leu Asp Tyr His Val Ser Ile Asp Arg Leu Ala Gly Tyr
195 200 205
Lys Ser Ser Leu Glu Lys His Gly Ile Ala Ile Asn Pro Asp Trp Val
210 215 220

Ile Asp Gly Gly Tyr Thr His Glu Ser Ala Leu Gln Ala Ala Cys Gln
 225 230 235 240
 Leu Leu Ser Ser Asp Asn Pro Pro Asp Ala Val Phe Ala Thr Asp Ser
 245 250 255
 Met Lys Leu Leu Ser Leu Tyr Arg Ala Ala Asp Glu Leu Asn Leu Thr
 260 265 270
 Ile Pro Glu Gln Val Ala Met Ala Gly Tyr Ser Asp Pro Met Leu Ser
 275 280 285
 Leu Ile Leu Thr Pro Ala Pro Gly Gly Phe Asp Ile Pro Thr Arg Lys
 290 295 300
 Leu Gly Glu Glu Ser Cys Asp Leu Leu Phe Arg Cys Ile Ala Gly Lys
 305 310 315 320
 Pro Ala Pro His Lys Val Leu Val Glu Thr His Phe Ser Asp Ala Ala
 325 330 335
 Ser Leu Arg
 340

<210> 7527
 <211> 269
 <212> PRT
 <213> Enterobacter cloacae

<400> 7527
 Cys Gln Ala Ile Phe His Thr His Gly Asn Tyr Leu Ile Lys Arg Gly
 1 5 10 15
 Phe Cys Thr Thr Leu Pro Glu Val Thr Leu Ser Ser Gly Phe Thr Met
 20 25 30
 Ala Thr Thr Arg Pro Arg Thr Glu Arg Gly Ala Phe Pro Gly Thr
 35 40 45
 Glu His Tyr Gly Arg Ser Phe Leu Gly Ala Pro Leu Ile Trp Phe Pro
 50 55 60
 Ala Pro Glu Ala Asp Arg Asn Ser Gly Leu Ile Ile Ala Gly Thr His
 65 70 75 80
 Gly Asp Glu Asn Ser Ser Val Val Thr Leu Ser Cys Ala Leu Arg Thr
 85 90 95
 Leu Ala Pro Asp Leu Arg Arg His His Val Ile Leu Thr Val Asn Pro
 100 105 110
 Asp Gly Cys Gln Leu Gly Leu Arg Ala Asn Ala Arg Gly Val Asp Leu
 115 120 125
 Asn Arg Asn Phe Pro Ala Ala Asn Trp Arg Ala Gly Glu Thr Val Tyr
 130 135 140
 Arg Trp Asn Ser Ser Ala Gln Glu Arg Asp Val Val Leu Leu Thr Gly
 145 150 155 160
 Asp Lys Pro Gly Ser Glu Pro Glu Thr Gln Ala Leu Cys Gln Leu Ile
 165 170 175
 His Lys Ile His Pro Ala Trp Val Ile Ser Phe His Asp Pro Leu Ala
 180 185 190
 Cys Ile Glu Asp Pro Arg His Thr Ala Leu Gly Gln Trp Leu Ala Asp
 195 200 205
 Ala Phe Ala Leu Pro Leu Val Ser Ser Val Gly Tyr Glu Thr Pro Gly
 210 215 220
 Ser Phe Gly Ser Trp Cys Ala Asp Leu Ser Leu His Cys Ile Thr Ala
 225 230 235 240
 Glu Phe Pro Pro Ile Ser Ser Asp Glu Ala Ser Glu Lys Tyr Leu Arg
 245 250 255
 Ala Met Thr Asp Leu Leu Arg Trp Gln Pro Gln Arg
 260 265

<210> 7528
 <211> 177
 <212> PRT

<213> Enterobacter cloacae

<400> 7528

Leu	Phe	Val	Asn	Arg	Lys	Ile	Ser	Met	Ser	Gln	Leu	Val	His	Phe	Gln
1				5					10					15	
Gly	Asn	Pro	Val	Ala	Val	Ala	Gly	Ser	Ile	Pro	Gln	Ser	Gly	Ser	Lys
			20					25					30		
Ala	Gln	Pro	Phe	Thr	Leu	Val	Ala	Lys	Asp	Leu	Ser	Asp	Val	Thr	Leu
			35					40					45		
Ser	Gln	Phe	Ala	Gly	Lys	Arg	Lys	Val	Leu	Asn	Ile	Phe	Pro	Ser	Ile
			50			55					60				
Asp	Thr	Gly	Val	Cys	Ala	Ser	Val	Arg	Lys	Phe	Asn	Gln	Leu	Ala	
65				70					75					80	
Thr	Glu	Met	Asp	Asn	Thr	Val	Val	Leu	Cys	Ile	Ser	Ala	Asp	Leu	Pro
				85					90					95	
Phe	Ala	Gln	Ser	Arg	Phe	Cys	Gly	Ala	Glu	Gly	Leu	Ser	Asn	Val	Ile
			100					105					110		
Thr	Leu	Ser	Thr	Leu	Arg	Ser	Pro	Asp	Phe	Leu	Glu	Lys	Tyr	Gly	Val
			115				120					125			
Ala	Ile	Ser	Glu	Gly	Ala	Leu	Lys	Gly	Leu	Ala	Ala	Arg	Ala	Val	Leu
			130			135					140				
Val	Ile	Asp	Glu	Asn	Asp	Asn	Val	Val	Phe	Ser	Glu	Leu	Val	Asn	Glu
145				150					155						160
Ile	Thr	Thr	Glu	Pro	Asp	Tyr	Thr	Ala	Ala	Leu	Glu	Ala	Leu	Lys	Ala
				165					170					175	

<210> 7529

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7529

Lys	Leu	Ile	Arg	Ala	Asn	Val	Leu	Pro	Ala	Ala	Ser	Cys	Glu	Asn	Gly
1				5					10					15	
Asp	Ile	Ile	Gly	Ser	Gly	Ala	Asp	Val	Thr	Glu	Tyr	Gln	Ile	Gly	Asp
			20					25					30		
Ser	Val	Cys	Cys	Tyr	Gly	Pro	Leu	Gln	Glu	Thr	Val	Ile	Val	Asn	Ala
			35				40					45			
Val	Asn	Asn	Tyr	Lys	Leu	Arg	Lys	Met	Pro	Gln	Gly	Ala	Ser	Trp	Lys
			50			55					60				
Asn	Ala	Val	Cys	Tyr	Asp	Pro	Ala	Gln	Phe	Ala	Met	Ser	Gly	Val	Arg
65				70					75						80
Asp	Ala	Asn	Val	Arg	Val	Gly	Asp	Phe	Val	Val	Val	Val	Gly	Leu	Gly
				85				90						95	
Ala	Ile	Gly	Gln	Ile	Ala	Ile	Gln	Leu	Ala	Lys	Lys	Ala	Gly	Ala	Ser
			100				105						110		
Val	Val	Ile	Gly	Val	Asp	Pro	Ile	Glu	His	Arg	Cys	Glu	Ile	Ala	Arg
			115				120					125			
Arg	His	Gly	Ala	Asp	His	Cys	Leu	Asn	Pro	Ile	Gly	Thr	Asp	Val	Gly
			130			135					140				
Leu	Glu	Ile	Lys	Lys	Leu	Thr	Gly	Lys	Gln	Gly	Ala	Asp	Val	Ile	Ile
145				150					155						160
Glu	Thr	Ser	Gly	Phe	Ala	Asp	Ala	Leu	Gln	Ser	Ala	Leu	Arg	Gly	Leu
				165					170					175	
Ala	Tyr	Gly	Gly	Thr	Ile	Ser	Tyr	Val	Ala	Phe	Ala	Lys	Pro	Phe	Ala
			180					185					190		
Ala	Gly	Phe	Asn	Leu	Gly	Arg	Glu	Ala	His	Phe	Asn	Asn	Ala	Lys	Ile
			195				200					205			
Val	Phe	Ser	Arg	Ala	Cys	Ser	Glu	Pro	Asn	Pro	Asp	Tyr	Pro	Arg	Trp

210		215		220
Ser Arg Lys Arg Ile Glu Thr Cys Trp Glu Leu Leu Met Asn Gly				
225		230		235
Tyr Leu Asn Cys Glu Asp Leu Ile Asp Pro Val Val Thr Phe Thr Thr				
	245		250	255
Ser Pro Glu Ser Tyr Met Lys Tyr Val Asp Gln His Pro Glu Leu Ser				
	260	265		270
Ile Lys Met Gly Val Thr Phe				
275				

<210> 7530

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7530

Met Leu Arg Met Thr Ser Val Met Ser Ala Ser Thr Pro Leu Pro Leu				
1	5	10	15	
Arg Val Ala Ile Ile Gly Ala Gly Gln Val Ala Asp Lys Val His Ala				
	20	25	30	
Ser Tyr Tyr Ala Thr Arg Ser Asp Val Gln Met Val Ala Val Met Asp				
	35	40	45	
Ser Arg Leu Glu Gln Ala Gln Ala Phe Ala Glu Arg Tyr Ala Ile Pro				
	50	55	60	
Ser Ala Trp Gln Asp Ala His Glu Met Leu Gln Glu Val Lys Pro Asp				
65	70	75	80	
Val Val Ser Val Cys Ser Pro Asn Arg Phe His Phe Glu His Val Met				
	85	90	95	
Ala Ala Leu Glu Ala Gly Cys His Val Met Cys Glu Lys Pro Pro Ala				
	100	105	110	
Met Thr Pro His Gln Ala Asp Glu Met Arg Leu Ala Ala Arg Lys Ala				
	115	120	125	
Gly Lys Val Leu Ala Tyr Asp Phe His His Arg Phe Ala Leu Asp Thr				
	130	135	140	
Gln His Leu Arg Asp Ala Val Met Asn Gly Thr Leu Gly Glu Ile Tyr				
145	150	155	160	
Phe Thr Ser Ala Gln Ala Leu Arg Arg Cys Gly Val Pro Gly Trp Gly				
	165	170	175	
Val Phe Thr Asn Lys Ser Leu Gln Gly Gly Pro Leu Ile Asp Ile				
	180	185	190	
Gly Ile His Met Leu Asp Ala Ala Met Tyr Val Leu Gly Phe Pro Pro				
	195	200	205	
Val Lys Arg Val Thr Ala His Ser Phe Gln Arg Leu Gly Asn Arg Lys				
	210	215	220	
His Thr Gly Gln Phe Gly Glu Trp Asp Pro Ala Gln Phe Thr Val Glu				
225	230	235	240	
Asp Ala Leu Phe Gly Thr Ile Glu Phe Cys Asn Gly Gly Ile Leu Arg				
	245	250	255	
Leu Asp Thr Ser Phe Ala Leu Asn Ile Arg Glu Gln Ser Ile Met Asn				
	260	265	270	
Val Ser Phe Cys Gly Glu Lys Ala Gly Ala Thr Leu Phe Pro Ala His				
	275	280	285	
Ile Tyr Asn Asp Glu Ala Gly Val Leu Gln Thr Leu Thr Gln Arg Glu				
	290	295	300	
Glu Ala Asp Asp Arg Arg His Leu Arg Ser Met Asp Ala Phe Val Arg				
305	310	315	320	
His Val Leu Gly Glu Pro Val Met Ile Ala Asp Ala Glu Gln Gly Leu				
	325	330	335	
Val Ile Gln Gln Leu Val Ala Ala Leu Tyr Glu Ala Ala Glu Thr Gly				
	340	345	350	
Glu Ser Val Thr Leu Cys				

355

<210> 7531
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 7531

Arg	Cys	Gly	Val	Lys	Arg	Cys	Met	Tyr	Gln	Gly	Gly	Arg	Ser	Val	Asn
1				5					10					15	
Val	Arg	Thr	Phe	Leu	Tyr	Leu	Leu	Met	Gly	Pro	Leu	Pro	Arg	Arg	Gly
			20					25					30		
Ala	Met	Thr	Leu	Asn	Ala	Val	Val	Phe	Asp	Leu	Asp	Gly	Val	Ile	Thr
			35				40					45			
Asp	Thr	Ala	His	Leu	His	Phe	Leu	Ala	Trp	Arg	Ala	Val	Ala	Glu	Glu
			50			55					60				
Ile	Gly	Ile	Thr	Phe	Asp	Glu	Val	Phe	Asn	Glu	Gln	Leu	Lys	Gly	Ile
65				70					75					80	
Ser	Arg	Met	Asp	Ser	Leu	Gln	Arg	Ile	Leu	Ile	His	Gly	Gly	Lys	Glu
				85				90						95	
Gly	Met	Phe	Ser	Asp	Glu	Gln	Arg	Leu	Ala	Leu	Ala	Arg	Lys	Lys	Asn
			100					105					110		
Ala	Leu	Tyr	Val	Gln	Ser	Leu	Ser	Ser	Leu	Thr	Gln	Asp	Ser	Leu	Leu
			115				120					125			
Pro	Gly	Ile	Arg	Asp	Val	Leu	Ala	Asp	Ile	Arg	Ala	Ala	Lys	Val	Lys
			130			135					140				
Ile	Gly	Leu	Ala	Ser	Val	Ser	Leu	Asn	Ala	Pro	Gly	Ile	Leu	His	Ala
145				150					155					160	
Leu	Gly	Ile	His	Gln	Ala	Phe	Asp	Phe	Cys	Ala	Asp	Ala	Ser	Arg	Ile
			165					170						175	
Ser	Arg	Ser	Lys	Pro	Asp	Pro	Glu	Ile	Phe	Leu	Ala	Ala	Cys	Lys	Gly
			180				185						190		
Leu	Asn	Val	Arg	Pro	Glu	Glu	Ala	Ile	Gly	Ile	Glu	Asp	Ala	Ala	Ala
			195				200					205			
Gly	Val	Asp	Ala	Ile	Asn	Ala	Ala	Gly	Met	Leu	Ser	Val	Gly	Ile	Gly
			210			215					220				
Pro	Gly	Leu	Asn	His	Ala	Gly	Leu	Gln	Leu	His	Ser	Thr	Gln	Glu	Leu
225				230					235					240	
Thr	Trp	Glu	Arg	Leu	Thr	Ala	Phe	Trp	Ala	Ser	Arg	Ala	Tyr		
				245					250					255	

<210> 7532
 <211> 309
 <212> PRT
 <213> Enterobacter cloacae

<400> 7532

Arg	Asn	Ile	Leu	Met	Ser	Thr	Leu	Leu	Arg	Ser	Ala	Ala	Leu	Val	Leu
1				5					10					15	
Cys	Ala	Gly	Val	Ser	Cys	Ala	Gln	Ala	Thr	Glu	Ser	Ala	Lys	Gln	Trp
			20					25					30		
Glu	Phe	Asn	Ile	Gly	Ala	Met	Tyr	Glu	Ile	Glu	Asn	Val	Glu	Gly	Gln
			35				40					45			
Ala	Asp	Asp	Lys	Asp	Gly	Leu	Tyr	Glu	Pro	Ser	Val	Trp	Phe	Asn	Ala
			50			55					60				
Thr	Trp	Asp	Ala	Trp	Thr	Ile	Ser	Leu	Ala	Met	Tyr	Gln	Glu	Gly	Pro
65				70					75					80	
Val	Asp	Tyr	Ser	Ser	Met	Thr	Arg	Gly	Thr	Tyr	Phe	Asp	Arg	Pro	Glu
				85				90						95	
Val	Glu	Leu	Arg	Tyr	Arg	Ile	Ile	Gly	Thr	Asp	Asp	Phe	Thr	Leu	Gly
			100					105					110		

Leu Thr Gly Gly Phe Arg Asn Tyr Ser Tyr His Phe Lys Asp Glu Asp
 115 120 125
 Gly Ala Lys Ala Gly Ser Ala Asn Met Gln Arg Tyr Lys Ile Gln Pro
 130 135 140
 Asp Trp Asp Val Lys Leu Thr Asp Asp Trp Arg Phe Gly Gly Trp Phe
 145 150 155 160
 Ala Met Tyr Gln Phe Ala Asn Asp Leu Ala Lys Thr Gly Tyr Ser Asp
 165 170 175
 Ser Arg Val Glu Thr Glu Thr Gly Phe Thr Trp Thr Ile Asn Glu Thr
 180 185 190
 Val Ser Ala Lys Val Asn Tyr Tyr Leu Glu Arg Gly Phe Asn Met Asp
 195 200 205
 Ser Ser Arg Asn Asn Gly Glu Phe Ser Thr Gln Glu Ile Arg Ala Tyr
 210 215 220
 Leu Pro Ile Ser Leu Gly Gln Thr Thr Leu Thr Pro Tyr Thr Arg Leu
 225 230 235 240
 Gly Leu Asp Arg Trp Ser Asn Trp Asp Trp Gln Asp Asp Pro Glu Arg
 245 250 255
 Glu Gly His Asp Phe Asn Arg Leu Gly Met Leu Tyr Ala Tyr Asp Phe
 260 265 270
 Asn Asn Gly Leu Ser Met Thr Leu Glu Tyr Ala Tyr Glu Trp Glu Asn
 275 280 285
 His Asp Glu Gly Glu Ser Asp Arg Phe His Tyr Ala Gly Ile Gly Val
 290 295 300
 Asn Tyr Ala Phe
 305

<210> 7533

<211> 344

<212> PRT

<213> *Enterobacter cloacae*

<400> 7533

Cys Met Ser Ser Ala Val Ser Thr Ala Asn Gln Phe Ser Ala Phe Pro
 1 5 10 15
 Ala Cys Lys Glu Ser Val Met Arg Ser Val Lys Val Tyr Glu Glu Ala
 20 25 30
 Trp Pro Leu His Thr Pro Phe Val Ile Ser Arg Gly Ser Arg Asn Glu
 35 40 45
 Ala Cys Val Val Val Val Glu Cys Glu Glu Asp Gly Val Lys Gly Val
 50 55 60
 Gly Glu Cys Thr Pro Tyr Pro Arg Tyr Gly Glu Ser Leu Ala Ser Val
 65 70 75 80
 Met Ala Gln Ile Met Thr Val Val Pro Glu Leu Gln Ala Gly Leu Thr
 85 90 95
 Arg Glu Ala Leu Gln Leu Arg Leu Pro Ala Gly Ala Ala Arg Asn Ala
 100 105 110
 Ile Asp Cys Ala Leu Trp Ser Leu Glu Ala Ala Lys Arg Gln Lys Pro
 115 120 125
 Leu Pro Ala Leu Leu Asp Val Thr Leu Pro Gln Ser Ile Val Thr Ala
 130 135 140
 Gln Thr Val Val Ile Gly Glu Pro Glu Gln Met Ala Ala Ser Ala Gln
 145 150 155 160
 Ala Leu Tyr Ala Thr Gly Ala Thr Leu Leu Lys Val Lys Leu Asp Asp
 165 170 175
 Arg Leu Ile Ser Glu Arg Met Val Ala Ile Arg Ala Ala Val Pro Asp
 180 185 190
 Ala Thr Leu Ile Val Asp Ala Asn Glu Ser Trp His Ser Glu Gly Leu
 195 200 205
 Ala Ala Arg Cys Gln Leu Leu Ala Asp Leu Gly Val Ala Met Leu Glu
 210 215 220

Gln Pro Leu Pro Ala Glu Asp Asp Ala Ala Leu Ala Asn Phe Ile His
 225 230 235 240
 Pro Leu Pro Val Cys Ala Asp Glu Ser Cys His Thr Arg Glu Ser Leu
 245 250 255
 Ser Ala Leu Lys Gly Arg Tyr Glu Met Val Asn Ile Lys Leu Asp Lys
 260 265 270
 Thr Gly Gly Leu Thr Glu Ala Leu Ala Leu Ala Gln Asp Ala Gln Ala
 275 280 285
 Gln Gly Phe Ala Leu Met Leu Gly Cys Met Leu Cys Thr Ser Arg Ala
 290 295 300
 Ile Gly Ala Ala Leu Pro Leu Val Asn Ser Val Arg Phe Ala Asp Leu
 305 310 315 320
 Asp Gly Pro Thr Trp Leu Ala Val Asp Val Ser Pro Ala Leu Asn Phe
 325 330 335
 Thr Ser Gly Val Leu His Leu
 340

<210> 7534

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7534

Ser Met Ser Ile Ser Thr Arg Asn Ser Val Ser Lys Trp Ala Ser Leu
 1 5 10 15
 Phe Lys Leu Arg Thr Ala Ile Met Lys Ile Ala Thr Gln Asn Gln Ala
 20 25 30
 Phe Phe Pro Thr Ala Ile Met Glu Lys Phe Glu Tyr Ile Lys Ala Met
 35 40 45
 Gly Phe Asp Gly Tyr Glu Ile Asp Gly Arg Leu Leu Val Glu Asn Leu
 50 55 60
 Asp Glu Val Lys Ala Ala Ile Lys Ala Thr Gly Leu Pro Val Thr Thr
 65 70 75 80
 Ala Cys Gly Gly Tyr Asp Gly Trp Ile Gly Asp Phe Ile Glu Glu Arg
 85 90 95
 Arg Leu Asn Gly Leu Gln Gln Ile Glu Arg Ile Leu Glu Ala Leu Ala
 100 105 110
 Glu Val Gly Gly Lys Gly Ile Ile Val Pro Ala Ala Trp Gly Met Phe
 115 120 125
 Thr Phe Arg Leu Pro Pro Met Thr Ser Pro Arg Ser Leu Asp Gly Asp
 130 135 140
 Arg Lys Ala Val Ser Ala Ser Leu Arg Trp Leu Asp Glu Val Ala Ala
 145 150 155 160
 Arg Thr Gly Thr Thr Val Tyr Leu Glu Pro Leu Asn Arg Tyr Gln Asp
 165 170 175
 His Met Ile Asn Thr Leu Ala Asp Ala Arg Arg Tyr Ile Glu Glu Asn
 180 185 190
 Gly Leu Lys His Val Gln Ile Ile Gly Asp Phe Tyr His Met Asn Ile
 195 200 205
 Glu Glu Asp Ser Leu Thr Glu Ala Leu His Gln Asn Arg Asp Leu Leu
 210 215 220
 Gly His Val His Ile Ala Asp Asn His Arg Tyr Gln Pro Gly Ser Gly
 225 230 235 240
 Ser Leu Asp Phe Ala Ser Leu Phe Asp Gln Leu Arg Ala Asp Asn Tyr
 245 250 255
 Gln Gly Tyr Val Val Tyr Glu Cys Arg Val Arg Ala Asp Asp Pro Ala
 260 265 270
 Gln Ala Tyr Lys Asp Ser Leu Thr Tyr Leu Arg Glu Cys
 275 280 285

<210> 7535

<211> 375
 <212> PRT
 <213> Enterobacter cloacae

<400> 7535

Arg	Arg	Ser	Gly	His	Pro	Gly	Arg	Ile	Asp	Lys	Glu	Leu	Ile	Met	Ala
1				5					10					15	
Gln	Leu	Ser	Leu	Lys	His	Ile	Gln	Lys	Ile	Tyr	Asp	Asn	Gln	Val	His
			20					25					30		
Val	Val	Lys	Asp	Phe	Asn	Leu	Glu	Ile	Glu	Asp	Lys	Glu	Phe	Ile	Val
		35					40					45			
Phe	Val	Gly	Pro	Ser	Gly	Cys	Gly	Lys	Ser	Thr	Thr	Leu	Arg	Met	Ile
	50					55					60				
Ala	Gly	Leu	Glu	Glu	Ile	Ser	Ala	Gly	Glu	Leu	Ile	Ile	Asp	Gly	Val
65					70				75						80
Cys	Met	Asn	Asp	Val	Pro	Ala	Lys	Ser	Arg	Asp	Ile	Ala	Met	Val	Phe
			85						90					95	
Gln	Asn	Tyr	Ala	Leu	Tyr	Pro	His	Met	Thr	Val	Tyr	Asp	Asn	Met	Ala
			100					105					110		
Phe	Gly	Leu	Lys	Met	Gln	Lys	Ile	Ala	Pro	Ser	Val	Ile	Glu	Glu	Arg
		115					120					125			
Val	Thr	Trp	Ala	Ala	Gln	Ile	Leu	Gly	Leu	Arg	Asp	Tyr	Leu	Gln	Arg
		130				135					140				
Lys	Pro	Gly	Ala	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Val	Ala	Leu	Gly
145					150					155					160
Arg	Ala	Ile	Val	Arg	Glu	Ala	Gly	Val	Phe	Leu	Met	Asp	Glu	Pro	Leu
			165						170					175	
Ser	Asn	Leu	Asp	Ala	Lys	Leu	Arg	Val	Gln	Met	Arg	Ala	Glu	Ile	Ser
			180					185					190		
Lys	Leu	His	Gln	Lys	Leu	Asn	Thr	Met	Ile	Tyr	Val	Thr	His	Asp	
		195					200				205				
Gln	Thr	Glu	Ala	Met	Thr	Met	Ala	Thr	Arg	Ile	Val	Ile	Leu	Lys	Asp
		210				215					220				
Gly	Ile	Ile	Gln	Gln	Val	Gly	Ala	Pro	Lys	Gln	Val	Tyr	Asn	Glu	Pro
225					230					235					240
Ala	Asn	Met	Phe	Val	Ala	Gly	Phe	Ile	Gly	Ser	Pro	Ala	Met	Asn	Phe
			245						250					255	
Ile	Arg	Gly	Ala	Ile	Asp	Asp	Arg	Tyr	Phe	Val	Thr	Glu	Thr	Leu	Arg
			260					265					270		
Leu	Glu	Ile	Pro	Glu	Asp	Lys	Leu	Ala	Val	Leu	Asn	Ala	Gln	Gly	Tyr
		275					280					285			
Gln	Arg	Lys	Ala	Val	Val	Phe	Gly	Ile	Arg	Pro	Glu	Asp	Ile	Leu	Thr
		290				295					300				
Val	Gln	Arg	Ser	Gly	Glu	Asn	Ile	Thr	Ala	Lys	Ile	Ser	Val	Ala	Glu
305					310					315					320
Leu	Thr	Gly	Ala	Glu	Phe	Met	Leu	Tyr	Ala	Thr	Val	Gly	Gly	His	Glu
			325						330					335	
Leu	Val	Val	Arg	Ala	Gly	Ala	Ala	Asp	Asp	Tyr	Val	Ala	Gly	Asp	Asn
			340					345					350		
Ile	Gly	Ile	Gln	Phe	Asp	Met	Asn	Lys	Cys	His	Phe	Phe	Asp	Ala	Asp
		355					360					365			
Thr	Glu	Thr	Ala	Ile	Arg										
		370					375								

<210> 7536
 <211> 353
 <212> PRT
 <213> Enterobacter cloacae

<400> 7536

Ile Ala Met Thr Glu Pro Leu Lys Pro Arg Ile Asp Phe Thr Gly Gln

1				5					10				15				
Leu	Glu	Gln	Thr	Pro	His	Glu	Ala	Phe	Lys	Thr	Ala	Gln	Thr	Phe	Ser		
			20					25					30				
Gly	Pro	Gln	Ala	Asp	Asn	Phe	Ala	Pro	Val	Leu	Ala	Asp	Glu	Pro	Met		
		35					40					45					
Val	Glu	Glu	Gly	Gln	Ala	Glu	Ala	Val	Val	Asp	Ala	Ala	Leu	Arg	Pro		
	50					55					60						
Lys	Arg	Ser	Leu	Trp	Arg	Lys	Met	Val	Thr	Ala	Gly	Leu	Ala	Leu	Phe		
65					70					75					80		
Gly	Val	Ser	Val	Ile	Gly	Gln	Gly	Val	Gln	Trp	Gly	Val	Asn	Ala	Trp		
				85					90					95			
Gln	Thr	Gln	Asp	Trp	Val	Ala	Leu	Gly	Gly	Cys	Ala	Ala	Gly	Ala	Leu		
			100					105					110				
Ile	Val	Gly	Ala	Gly	Val	Gly	Ser	Val	Val	Ser	Glu	Trp	Arg	Arg	Leu		
		115					120					125					
Trp	Arg	Leu	Arg	Gln	Arg	Ala	His	Glu	Arg	Asp	Glu	Ala	Arg	Asp	Leu		
	130					135					140						
Leu	His	Ser	His	Gly	Thr	Gly	Lys	Gly	Arg	Ala	Phe	Cys	Glu	Lys	Leu		
145				150					155						160		
Ala	Ala	Gln	Ala	Gly	Ile	Asp	His	Ser	His	Pro	Ala	Leu	Gln	Arg	Trp		
				165					170					175			
Tyr	Ala	Ala	Ile	His	Glu	Thr	Gln	Asn	Asp	Gln	Glu	Val	Val	Thr	Leu		
			180					185					190				
Tyr	Ala	His	Ile	Val	Gln	Pro	Val	Leu	Asp	Ala	Gln	Ala	Arg	Arg	Glu		
	195						200					205					
Ile	Ser	Arg	Ser	Ala	Ala	Glu	Ser	Thr	Leu	Met	Ile	Ala	Val	Ser	Pro		
	210					215					220						
Leu	Ala	Met	Val	Asp	Met	Ala	Phe	Ile	Ala	Trp	Arg	Asn	Leu	Arg	Leu		
225				230					235						240		
Ile	Asn	Arg	Ile	Ala	Arg	Leu	Tyr	Gly	Ile	Glu	Leu	Gly	Tyr	Tyr	Ser		
				245				250					255				
Arg	Leu	Arg	Leu	Phe	Lys	Leu	Val	Leu	Leu	Asn	Ile	Ala	Phe	Ala	Gly		
			260					265				270					
Ala	Ser	Glu	Leu	Val	Arg	Glu	Val	Gly	Met	Asp	Trp	Met	Ser	Gln	Asp		
	275					280						285					
Leu	Ala	Ala	Arg	Leu	Ser	Ala	Arg	Ala	Ala	Gln	Gly	Ile	Gly	Ala	Gly		
	290					295					300						
Leu	Leu	Thr	Ala	Arg	Leu	Gly	Ile	Lys	Ala	Met	Glu	Val	Cys	Arg	Pro		
305				310					315						320		
Leu	Pro	Trp	Ile	Asp	Gly	Asp	Lys	Pro	Arg	Leu	Gly	Asp	Phe	Arg	Arg		
				325				330						335			
Glu	Leu	Ile	Gly	Gln	Leu	Lys	Glu	Thr	Leu	Asn	Lys	Lys	Pro	Ala	Gln		
			340					345					350				

<210> 7537

<211> 546

<212> PRT

<213> Enterobacter cloacae

<400> 7537

Ser	Cys	Gly	Leu	Ser	Ile	Phe	Val	Asp	Ser	His	Leu	Pro	Glu	His	Arg		
1				5					10					15			
Asp	Leu	Thr	Tyr	His	Phe	Thr	Val	Ile	Gly	Leu	Asn	Gly	Glu	Phe	Pro		
		20						25					30				
Met	Arg	Leu	Glu	Val	Phe	Cys	Glu	Asp	Arg	Leu	Gly	Leu	Thr	Arg	Glu		
		35					40					45					
Leu	Leu	Asp	Leu	Leu	Val	Leu	Arg	Ser	Ile	Asp	Leu	Arg	Gly	Ile	Glu		
	50					55				60							
Ile	Asp	Pro	Val	Gly	Arg	Ile	Tyr	Leu	Asn	Phe	Ala	Glu	Ile	Glu	Phe		

65					70					75					80
Asn	Thr	Phe	Ser	Ser	Leu	Met	Ala	Glu	Ile	Arg	Arg	Ile	Ala	Gly	Val
				85					90					95	
Thr	Asp	Val	Arg	Thr	Ile	Pro	Trp	Met	Pro	Ser	Glu	Arg	Glu	His	Leu
			100					105					110		
Ala	Leu	Ser	Ala	Leu	Leu	Glu	Ala	Met	Pro	Glu	Pro	Phe	Leu	Ser	Leu
			115					120					125		
Asp	Leu	Lys	Asn	Lys	Val	Glu	Arg	Val	Asn	Gln	Ala	Ser	Cys	Gln	Leu
						135					140				
Phe	Ala	Gln	Thr	Gln	Glu	Lys	Leu	Ile	Gly	His	His	Ala	Thr	Gln	Leu
145					150					155					160
Ile	Thr	Gly	Phe	Asn	Phe	Gln	Arg	Trp	Leu	Asp	Ser	Asn	Pro	Gln	Asn
				165					170					175	
Thr	His	Ser	Glu	His	Val	Val	Ile	Asn	Gly	Gln	Asn	Phe	Leu	Met	Glu
			180					185					190		
Ile	Thr	Pro	Val	Tyr	Leu	Lys	Gly	Glu	Asn	Ala	Ala	Arg	Val	Leu	Thr
			195				200					205			
Gly	Ala	Val	Ile	Met	Leu	Arg	Ser	Thr	Val	Arg	Met	Gly	Arg	Gln	Leu
						215					220				
Gln	Asn	Leu	Ser	Ser	Gln	Asp	Val	Gly	Ala	Phe	Ser	Gln	Ile	Ile	Ala
225					230					235					240
Val	Ser	Pro	Lys	Met	Arg	His	Val	Ile	Asp	Gln	Ala	Arg	Lys	Leu	Ala
				245					250					255	
Asn	Leu	Thr	Ala	Pro	Leu	Leu	Ile	Thr	Gly	Asp	Thr	Gly	Thr	Gly	Lys
			260					265					270		
Asp	Leu	Leu	Ala	His	Ala	Val	His	Met	Ala	Ser	Pro	Arg	Ala	Ala	Lys
			275					280				285			
Pro	Tyr	Leu	Ala	Leu	Asn	Cys	Ala	Ser	Ile	Pro	Glu	Asp	Ala	Val	Glu
						295					300				
Ser	Glu	Leu	Phe	Gly	His	Ala	Pro	Glu	Gly	Lys	Lys	Gly	Phe	Phe	Glu
305				310						315					320
Gln	Ala	Asn	Gly	Gly	Ser	Val	Leu	Leu	Asp	Glu	Ile	Gly	Glu	Met	Ser
				325					330					335	
Pro	Arg	Met	Gln	Ala	Lys	Leu	Leu	Arg	Phe	Leu	Asn	Asp	Gly	Thr	Phe
			340					345					350		
Arg	Arg	Val	Gly	Glu	Asp	His	Glu	Val	His	Val	Asp	Val	Arg	Val	Ile
			355				360					365			
Cys	Ala	Thr	Gln	Lys	Asn	Leu	Val	Glu	Leu	Val	Gln	Lys	Gly	Val	Phe
						375					380				
Arg	Glu	Asp	Leu	Tyr	Tyr	Arg	Leu	Asn	Val	Leu	Thr	Leu	Asn	Ile	Pro
385					390					395					400
Pro	Leu	Arg	Asp	Cys	Pro	Gln	Asp	Ile	Met	Pro	Leu	Thr	Glu	Leu	Phe
				405					410					415	
Val	Ala	Arg	Phe	Ala	Asp	Glu	Gln	Gly	Val	Pro	Arg	Pro	Lys	Leu	Ser
			420					425							

<210> 7538

<211> 770

<212> PRT

<213> Enterobacter cloacae

<400> 7538

Ser	Arg	Gly	Asn	Arg	Gly	Lys	Arg	Asp	Val	Met	Leu	Asn	Gln	Ser	Val
1			5						10					15	
Leu	Thr	Asp	Pro	Ser	Phe	Cys	Pro	His	Ser	Leu	Asn	Lys	Tyr	Ala	Ser
		20						25					30		
Ile	Met	Ala	Cys	Gly	Asn	Gly	Tyr	Met	Gly	Ile	Arg	Ala	Thr	His	Glu
	35						40					45			
Glu	Asp	Tyr	Thr	Gln	Gln	Thr	Arg	Gly	Met	Tyr	Leu	Ala	Gly	Leu	Tyr
	50					55					60				
His	Arg	Ala	Gly	Arg	Asn	Glu	Thr	Thr	Glu	Leu	Ile	Asn	Leu	Pro	Asp
65					70					75					80
Val	Thr	Gly	Val	Glu	Val	Glu	Leu	Asp	Gly	Val	Asn	Phe	Thr	Leu	Leu
			85						90					95	
Ser	Gly	Glu	Ile	Leu	Glu	Trp	Gln	Arg	Glu	Leu	Ala	Phe	Ala	Asn	Gly
			100					105						110	
Glu	Leu	His	Arg	Asn	Val	Val	Trp	Arg	Ser	Pro	Asp	Gly	Lys	Arg	Tyr
	115						120					125			
Arg	Leu	Glu	Ser	Arg	Arg	Phe	Val	Ser	Leu	Asp	Gln	Leu	Pro	Leu	Val
	130					135					140				
Ala	Met	Arg	Leu	Ser	Ile	Thr	Pro	Leu	Asp	Gly	Ala	Ala	Gln	Ala	Val
145					150					155					160
Leu	Lys	Thr	Gly	Ile	Asp	Ala	Thr	Gln	Thr	Asn	Ser	Gly	Arg	Gln	His
			165						170					175	
Leu	Asp	Glu	Ile	Ser	Val	Arg	Val	Phe	Asp	Gln	His	Tyr	Met	Gln	Gly
		180						185					190		
Val	Tyr	Glu	Thr	Gln	Asp	Arg	Ala	Ser	Glu	Val	Val	Val	Ser	Ala	Phe
	195						200					205			
Cys	Gln	Leu	Ser	Ala	Gln	Ser	Asp	Ser	Cys	Phe	Thr	Ala	Lys	Asn	Arg
	210					215					220				
Arg	Leu	Ser	Val	His	His	Ser	Leu	Thr	Ile	Ser	Gln	Gly	Asp	Thr	Val
225					230					235					240
Thr	Leu	Glu	Lys	Ile	Val	Trp	Leu	Thr	His	Arg	Ser	Asp	Lys	Ala	Leu
			245						250					255	
Ser	Gln	Glu	Ser	Phe	Ala	Arg	Asn	Ala	Leu	Ala	Asp	Leu	Lys	Val	Cys
			260				265						270		
Ala	Ala	Arg	Gly	Tyr	Asp	Ala	Leu	Leu	Glu	Ser	Ser	Ala	Tyr	Ala	Trp
		275					280					285			
Glu	Ala	Val	Trp	Arg	Asp	Ala	Arg	Val	Glu	Val	Thr	Cys	Ala	Glu	Gln
	290					295					300				
Gln	Asp	Gln	Leu	Ala	Leu	Asp	Tyr	Ala	Val	Trp	His	Leu	Thr	Thr	Met
305					310					315					320
Thr	Pro	Ala	His	Ser	Glu	Arg	Ser	Ser	Ile	Ala	Ala	Lys	Gly	Leu	Thr
			325						330					335	
Gly	Glu	Gly	Tyr	Lys	Gly	His	Val	Phe	Trp	Asp	Thr	Glu	Ile	Phe	Leu
		340						345					350		
Leu	Pro	Phe	His	Leu	Phe	Thr	Arg	Pro	Gln	Ile	Ala	Arg	Ser	Leu	Leu
		355					360					365			
Arg	Tyr	Arg	Trp	Leu	Asn	Leu	Ser	Gly	Ala	Arg	Glu	Lys	Ala	Arg	Arg
	370					375					380				
Asn	Gly	Trp	Pro	Gly	Ala	Leu	Phe	Pro	Trp	Glu	Ser	Ala	Ala	Ser	Gly
385					390					395					400
Glu	Glu	Glu	Thr	Pro	Glu	Phe	Ala	Ala	Ile	Asn	Ile	Arg	Thr	Gly	Val
			405						410					415	
Arg	Gln	Lys	Val	Ala	Ser	Ala	Leu	Ala	Glu	His	His	Ile	Val	Ala	Asp
			420					425					430		

Ile Ala Trp Ala Val Val Ala Tyr Trp Gln Ala Thr His Asp Asp Ala
 435 440 445
 Phe Met Arg Asn Glu Gly Leu Thr Leu Leu Met Glu Thr Ala Ser Phe
 450 455 460
 Trp Met Gly Arg Ala Thr Glu Ile Asn Gly Arg Leu Glu Ile His Asp
 465 470 475 480
 Val Ile Gly Pro Asp Glu Tyr Thr Glu His Val Asn Asn Asn Ala Tyr
 485 490 495
 Thr Asn Tyr Leu Ala Trp His Asn Val Ala Cys Ala Arg Gln Phe Met
 500 505 510
 Ala Lys Phe Gly Arg Glu Asp Ala Arg Phe Thr Glu Asn Ala Gly Lys
 515 520 525
 Phe Leu Ala Arg Leu Trp Leu Pro Glu Ala Asp Ala Glu Gly Val Ile
 530 535 540
 Pro Gln Asp Asp Thr Phe Met Ala Lys Pro Ala Ile Asp Leu Ser Arg
 545 550 555 560
 Tyr Lys Ala Lys Ala Gly Lys Gln Thr Ile Leu Leu Asp Tyr Ser Arg
 565 570 575
 Ala Glu Val Asn Glu Met Gln Ile Leu Lys Gln Ala Asp Val Val Met
 580 585 590
 Leu Asn Tyr Leu Leu Pro Glu Arg Phe Thr Pro Gln Gln Cys Ala Ala
 595 600 605
 Asn Leu Ala Phe Tyr Glu Pro Arg Thr Ile His Asp Ser Ser Leu Ser
 610 615 620
 Lys Ala Ile His Gly Ile Val Leu Ala Arg Cys Gly Asp Thr Glu Gly
 625 630 635 640
 Ala Tyr Ala Phe Trp Arg Asp Gly Ile Ala Ile Asp Leu Gly Asp Asp
 645 650 655
 Pro His Ser Ser Asp Asp Gly Ile His Ala Ala Ala Thr Gly Ala Ile
 660 665 670
 Trp Leu Gly Ala Ile Gln Gly Phe Ala Gly Leu His Ile Ser Glu Gly
 675 680 685
 Glu Leu His Leu Ala Pro Lys Leu Pro Ala His Trp Gln Lys Leu Ala
 690 695 700
 Phe Pro Leu Arg Trp Arg Gly Ala Thr Met His Ile Thr Cys Glu Asp
 705 710 715 720
 Asp Leu Leu Thr Ile Glu Thr Thr Ala Pro Val Thr Leu Thr Leu Trp
 725 730 735
 Gly Lys Thr Leu His Val Ser Gly Arg Lys Val Cys Glu Arg Lys Asp
 740 745 750
 Phe Leu Val Pro Val Asn Gly Thr Ala Thr Thr Glu Gly Arg His Asp
 755 760 765
 Ala
 770

<210> 7539

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7539

Arg Thr Ala Met Lys Arg Leu Lys Asn Glu Phe Asn Ser Leu Val Asn
 1 5 10 15
 Arg Gly Val Asp Arg His Leu Arg Leu Ala Val Thr Gly Leu Ser Arg
 20 25 30
 Ser Gly Lys Thr Ala Phe Ile Thr Ala Met Val Asn Gln Leu Leu Asn
 35 40 45
 Leu His Ala Gly Ala Arg Leu Pro Leu Leu Ser Ala Val Arg Glu Glu
 50 55 60
 Arg Leu Leu Gly Val Lys Arg Val Pro Gln Arg Asp Phe Gly Ile Pro
 65 70 75 80

Arg Phe Thr Tyr Asp Glu Gly Leu Ala Gln Leu Tyr Gly Glu Pro Pro
 85 90 95
 Ala Trp Pro Thr Pro Thr Arg Gly Val Ser Glu Ile Arg Leu Ala Leu
 100 105 110
 Arg Phe Arg Ser Asn Glu Ser Leu Met Arg His Phe Lys Glu Thr Ser
 115 120 125
 Thr Leu Tyr Leu Glu Ile Val Asp Tyr Pro Gly Glu Trp Leu Leu Asp
 130 135 140
 Leu Pro Met Leu Ala Gln Asp Tyr Leu Asn Trp Ser Arg Gln Met Thr
 145 150 155 160
 Gly Leu Leu Gln Gly Gln Arg Ala Glu Trp Ser Thr Gln Trp Arg Gln
 165 170 175
 Leu Cys Glu Gly Leu Asp Pro Leu Ala Pro Ala Asp Glu Asn Arg Leu
 180 185 190
 Ala Val Ile Ala Glu Ala Trp Thr Asp Tyr Leu His Gln Cys Lys Gln
 195 200 205
 Glu Gly Leu His Phe Ile Gln Pro Gly Arg Phe Val Leu Pro Gly Asp
 210 215 220
 Leu Ala Gly Ala Pro Ala Leu Gln Phe Phe Pro Trp Pro Asp Val Asp
 225 230 235 240
 Ser Ile Gly Glu Ser Lys Leu Ala Gln Ala Asp Lys Thr Thr Asn Ala
 245 250 255
 Gly Met Leu Arg Glu Arg Tyr Asn Tyr Tyr Cys Glu Lys Val Val Lys
 260 265 270
 Gly Phe Tyr Lys Asn His Phe Leu Arg Phe Asp Arg Gln Ile Val Leu
 275 280 285
 Val Asp Cys Leu Gln Pro Leu Asn Ser Gly Pro Gln Ala Phe Asn Asp
 290 295 300
 Met Arg Leu Ala Leu Thr Gln Leu Met Gln Ser Phe His Tyr Gly Gln
 305 310 315 320
 Arg Thr Leu Phe Arg Arg Leu Phe Ser Pro Val Ile Asp Lys Leu Leu
 325 330 335
 Phe Ala Ala Thr Lys Ala Asp His Val Thr Val Asp Gln His Ala Asn
 340 345 350
 Met Val Ser Leu Leu Gln Gln Leu Val Gln Asp Ala Trp Gln Asn Ala
 355 360 365
 Ala Phe Glu Gly Ile Ser Met Asp Cys Leu Gly Leu Ala Ser Val Gln
 370 375 380
 Ala Thr Gln Ser Gly Leu Ile Asp Leu Asn Gly Glu Lys Ile Pro Ala
 385 390 395 400
 Leu Arg Gly Asn Arg Leu Ser Asp Gly Glu Pro Leu Thr Val Tyr Pro
 405 410 415
 Gly Glu Val Pro Ala Arg Leu Pro Gly Gln Ala Phe Trp Gln Ser Gln
 420 425 430
 Gly Phe Gln Phe Glu Ala Phe Arg Pro Gln Ser Met Asn Val Asp Gln
 435 440 445
 Pro Leu Pro His Ile Arg Leu Asp Ala Ala Leu Glu Phe Leu Ile Gly
 450 455 460
 Asp Lys Leu Arg
 465

<210> 7540

<211> 542

<212> PRT

<213> Enterobacter cloacae

<400> 7540

Gly Asp Arg Met Lys His Pro Val Ser Leu Leu Cys Thr Ala Leu Trp
 1 5 10 15
 Leu Cys Gly Leu Ser Ser Leu Ser Tyr Ala Ala Glu Val Pro Glu Gly
 20 25 30

Thr	Val	Leu	Ala	Gln	Lys	Gln	Glu	Leu	Val	Arg	His	Ile	Lys	Asp	Glu
		35					40					45			
Pro	Ala	Ser	Leu	Asp	Pro	Ala	Lys	Ala	Val	Gly	Leu	Pro	Glu	Ile	Gln
	50					55				60					
Val	Ile	Arg	Asp	Leu	Tyr	Glu	Gly	Leu	Val	Asn	Gln	Asn	Glu	Lys	Gly
65					70					75					80
Glu	Leu	Val	Pro	Gly	Val	Ala	Thr	Arg	Trp	Gln	Ser	Asn	Asp	Asn	Arg
				85					90					95	
Val	Trp	Thr	Phe	Thr	Leu	Arg	Asp	Asn	Ala	Lys	Trp	Ser	Asp	Gly	Thr
			100					105					110		
Pro	Val	Thr	Ala	Gln	Asp	Phe	Val	Tyr	Ser	Trp	Arg	Arg	Leu	Val	Asp
		115					120					125			
Pro	Lys	Thr	Thr	Ser	Pro	Phe	Ala	Trp	Phe	Ala	Ala	Leu	Ala	Gly	Ile
	130					135				140					
Asn	Asn	Ala	Gln	Ser	Ile	Ile	Asp	Gly	Lys	Ala	Ala	Pro	Asp	Thr	Leu
145					150					155					160
Gly	Val	Thr	Ala	Val	Asp	Ala	Lys	Thr	Leu	Arg	Val	Gln	Leu	Asp	Lys
				165					170					175	
Pro	Leu	Pro	Trp	Phe	Ser	Asn	Leu	Thr	Ala	Asn	Phe	Ala	Phe	Tyr	Pro
			180					185					190		
Val	Gln	Lys	Ala	Asn	Val	Glu	Ser	Gly	Lys	Glu	Trp	Thr	Arg	Pro	Gly
		195					200					205			
Ala	Leu	Ile	Gly	Asn	Gly	Ala	Tyr	Val	Leu	Lys	Asp	Arg	Val	Val	Asn
	210					215					220				
Glu	Lys	Leu	Val	Val	Glu	Pro	Asn	Ser	His	Tyr	Trp	Asp	Asn	Ala	Arg
225					230					235					240
Thr	Val	Leu	Lys	Lys	Val	Thr	Phe	Val	Pro	Ile	Asn	Gln	Glu	Ser	Ser
				245					250					255	
Ala	Thr	Lys	Arg	Tyr	Leu	Ala	Gly	Asp	Ile	Asp	Ile	Thr	Glu	Ser	Phe
			260					265					270		
Pro	Lys	Asn	Met	Tyr	Gln	Lys	Leu	Leu	Lys	Asp	Ile	Pro	Gly	Gln	Val
		275					280					285			
Tyr	Thr	Pro	Pro	Gln	Leu	Gly	Thr	Tyr	Tyr	Tyr	Ala	Phe	Asn	Thr	Gln
	290					295					300				
Lys	Gly	Pro	Thr	Ala	Asp	Ala	Arg	Val	Arg	Leu	Ala	Leu	Ser	Met	Thr
305					310					315					320
Ile	Asp	Arg	Arg	Ile	Met	Ala	Glu	Lys	Val	Leu	Gly	Thr	Gly	Glu	Lys
				325					330					335	
Pro	Ala	Trp	His	Phe	Thr	Pro	Asp	Val	Thr	Ala	Gly	Phe	Thr	Pro	Glu
			340					345					350		
Thr	Ser	Pro	Phe	Glu	Gln	Met	Ser	Gln	Gln	Glu	Leu	Asn	Ala	Gln	Ala
		355					360					365			
Lys	Thr	Leu	Leu	Gln	Ala	Ala	Gly	Tyr	Gly	Pro	Gln	Arg	Pro	Leu	Lys
	370					375					380				
Leu	Thr	Leu	Leu	Tyr	Asn	Thr	Ser	Glu	Asn	His	Gln	Lys	Ile	Ala	Ile
385					390					395					400
Ala	Val	Ala	Ser	Met	Trp	Lys	Lys	Asn	Leu	Gly	Val	Asp	Val	Lys	Leu
				405					410					415	
Gln	Asn	Gln	Glu	Trp	Lys	Thr	Tyr	Ile	Asp	Ser	Arg	Asn	Thr	Gly	Asn
			420					425					430		
Phe	Asp	Val	Ile	Arg	Ala	Ser	Trp	Val	Gly	Asp	Tyr	Asn	Glu	Pro	Ser
	435						440					445			
Thr	Phe	Leu	Ser	Leu	Leu	Thr	Ser	Ser	His	Ser	Gly	Asn	Ile	Ser	Arg
	450					455					460				
Phe	Asn	Asp	Pro	Ala	Tyr	Asp	Lys	Ile	Ile	His	Gln	Ala	Thr	Leu	Glu
465					470					475					480
Thr	Thr	Glu	Lys	Ala	Arg	Asn	Ala	Asp	Tyr	Asn	Met	Ala	Glu	Lys	Ile
				485					490					495	
Leu	Thr	Glu	Lys	Ala	Pro	Ile	Ala	Pro	Ile	Tyr	Gln	Tyr	Thr	Asn	Gly
			500					505					510		
Arg	Leu	Ile	Lys	Pro	Trp	Val	Lys	Gly	Tyr	Pro	Ile	Asn	Asn	Pro	Glu

	515					520					525	
Asp	Val	Ala	Tyr	Ser	Arg	Thr	Met	Tyr	Ile	Glu	Lys	His
	530					535					540	

<210> 7541

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 7541

Leu	Pro	Ala	Ala	Gly	Gln	Pro	Ile	Arg	Pro	Ile	Cys	Ser	Arg	Ser	Thr
1				5					10					15	
Ser	Thr	Thr	Pro	Pro	Leu	Ser	Ile	Ser	Ile	Trp	Ala	Met	Ala	Arg	Arg
			20					25					30		
Trp	Arg	Gly	Ser	Cys	Ser	Trp	Trp	Trp	Pro	Ser	Ser	Pro	Val	Ser	Pro
		35					40					45			
Leu	Ser	Arg	Arg	Asn	Thr	Gly	Cys	Ser	Thr	Pro	Pro	Ile	Lys	Glu	Ala
	50					55					60				
Lys	Met	Ala	Asp	Ile	Gln	Gln	Leu	Ser	Thr	Ala	Arg	Ser	Val	Ala	Glu
65					70					75					80
Arg	Glu	Val	Ala	Arg	Thr	Leu	Arg	Arg	Glu	Lys	Ile	Asn	Ala	Ser	Val
				85					90					95	
Arg	Tyr	Val	Ile	Leu	Leu	Val	Val	Gly	Leu	Leu	Met	Leu	Tyr	Pro	Leu
			100					105					110		
Val	Trp	Met	Phe	Ser	Ala	Ser	Phe	Lys	Pro	Asn	His	Glu	Ile	Phe	Thr
		115					120					125			
Thr	Leu	Ser	Leu	Trp	Pro	Ala	His	Ala	Thr	Trp	Asp	Gly	Phe	Val	Asn
	130					135					140				
Gly	Trp	Lys	Thr	Gly	Thr	Glu	Tyr	Asn	Phe	Gly	His	Tyr	Met	Leu	Asn
145					150					155					160
Thr	Phe	Lys	Tyr	Val	Ile	Pro	Lys	Val	Ile	Leu	Thr	Ile	Ile	Ser	Ser
				165					170					175	
Thr	Ile	Val	Ala	Tyr	Gly	Phe	Ala	Arg	Phe	Glu	Ile	Pro	Trp	Lys	Lys
			180					185					190		
Phe	Trp	Phe	Ala	Thr	Leu	Ile	Thr	Thr	Met	Leu	Leu	Pro	Ser	Thr	Val
		195					200					205			
Leu	Leu	Ile	Pro	Gln	Tyr	Leu	Met	Phe	Arg	Glu	Met	Gly	Met	Leu	Asn
	210					215					220				
Ser	Tyr	Met	Pro	Leu	Tyr	Leu	Pro	Leu	Ala	Phe	Ala	Thr	Gln	Gly	Phe
					230					235					240
Phe	Val	Phe	Met	Leu	Ile	Gln	Phe	Leu	Arg	Gly	Val	Pro	Arg	Asp	Met
				245					250					255	
Glu	Glu	Ala	Ala	Gln	Ile	Asp	Gly	Cys	Asn	Ser	Ile	Gln	Val	Leu	Trp
			260					265					270		
Tyr	Val	Val	Val	Pro	Ile	Leu	Lys	Pro	Ala	Ile	Ile	Ser	Val	Ala	Leu
		275					280					285			
Phe	Gln	Phe	Met	Trp	Ser	Met	Asn	Asp	Phe	Ile	Gly	Pro	Leu	Ile	Tyr
	290					295					300				
Val	Tyr	Ser	Val	Asp	Lys	Tyr	Pro	Ile	Ala	Leu	Ala	Leu	Lys	Met	Ser
					310					315					320
Ile	Asp	Val	Thr	Glu	Gly	Ala	Pro	Trp	Asn	Glu	Ile	Leu	Ala	Met	Ala
				325					330					335	
Ser	Ile	Ser	Ile	Leu	Pro	Ser	Ile	Ile	Val	Phe	Phe	Leu	Ala	Gln	Arg
				340					345				350		
Tyr	Phe	Val	Gln	Gly	Val	Thr	Ser	Ser	Gly	Ile	Lys	Gly			
		355					360					365			

<210> 7542

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 7542

Glu Gly Asn Thr Met Ala Glu Val Ile Phe Asn Lys Leu Glu Lys Val
 1 5 10 15
 Tyr Ser Asn Gly Phe Lys Ala Val His Ala Ile Asp Leu Lys Ile Ala
 20 25 30
 Glu Gly Glu Phe Met Val Ile Val Gly Pro Ser Gly Cys Ala Lys Ser
 35 40 45
 Thr Thr Leu Arg Met Leu Ala Gly Leu Glu Thr Ile Ser Gly Gly Glu
 50 55 60
 Val Arg Ile Gly Asp Lys Ile Val Asn Asn Leu Ala Pro Lys Glu Arg
 65 70 75 80
 Gly Ile Ala Met Val Phe Gln Asn Tyr Ala Leu Tyr Pro His Met Thr
 85 90 95
 Val Arg Glu Asn Leu Ala Phe Gly Leu Lys Leu Ser Lys Leu Pro Lys
 100 105 110
 Asp Gln Ile Glu Ser Gln Val Asn Glu Ala Ala Lys Ile Leu Glu Leu
 115 120 125
 Glu Glu Leu Leu Asp Arg Leu Pro Arg Gln Leu Ser Gly Gly Gln Ala
 130 135 140
 Gln Arg Val Ala Val Gly Arg Ala Ile Val Lys Lys Pro Asp Val Phe
 145 150 155 160
 Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Lys Leu Arg Ala Ser
 165 170 175
 Met Arg Ile Arg Ile Ser Asp Leu His Lys Gln Leu Lys Lys Ser Gly
 180 185 190
 Lys Pro Ala Thr Thr Val Tyr Val Thr His Asp Gln Thr Glu Ala Met
 195 200 205
 Thr Met Gly Asp Arg Ile Cys Val Met Lys Leu Gly His Ile Met Gln
 210 215 220
 Val Asp Thr Pro Asp Asn Leu Tyr His Lys Pro Arg Asn Met Phe Val
 225 230 235 240
 Ala Gly Phe Ile Gly Ala Pro Glu Met Asn Ile Arg Lys Ser Val Leu
 245 250 255
 Val Glu Lys Ala Gly Gln Leu His Ile Ala Ile Gly Asp Glu Thr Met
 260 265 270
 Pro Leu Asn Ala Glu Lys Gln Glu Lys Val Ala Ala Tyr Ala Gly Gln
 275 280 285
 Glu Ile Tyr Tyr Gly Val Arg Pro Glu Phe Val Ser Leu Ser Asp Glu
 290 295 300
 Pro Phe Pro Asn Gly Gly Cys Ser Gly Glu Met Val Arg Val Glu Asn
 305 310 315 320
 Met Gly His Glu Phe Phe Val Tyr Leu Lys Val Ala Asp Tyr Glu Leu
 325 330 335
 Thr Ala Arg Ile Pro Ser Asp Glu Ala Lys Pro Met Ile Asp Lys Gly
 340 345 350
 Leu His Arg Lys Val Tyr Phe Thr Phe Glu Met Asn Lys Cys His Ile
 355 360 365
 Phe Asp Ala Lys Thr Glu Gln Asn Leu Ser Leu
 370 375 380

<210> 7543

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7543

Met Ala Thr Ile Lys Asp Val Ala Arg Leu Ala Gly Val Ser Val Ala
 1 5 10 15
 Thr Val Ser Arg Val Ile Asn Asn Ser Pro Lys Ala Ser Asp Ala Ser
 20 25 30

Arg Gln Ala Val Gln Asp Ala Met Glu Asn Leu Asn Tyr His Pro Asn
 35 40 45
 Ala Asn Ala Arg Ala Leu Ala Gln Gln Ser Thr Glu Thr Ile Gly Leu
 50 55 60
 Val Val Gly Asp Val Ser Asp Pro Phe Phe Gly Ala Met Val Lys Ala
 65 70 75 80
 Val Glu Gln Val Ser Tyr His Thr Gly Asn Phe Leu Leu Ile Gly Asn
 85 90 95
 Gly Tyr His Asn Glu Gln Lys Glu Arg Gln Ala Ile Glu Gln Leu Ile
 100 105 110
 Arg His Arg Cys Ala Ala Leu Val Val His Ala Lys Met Ile Pro Asp
 115 120 125
 Ala Glu Leu Ile His Leu Met Lys Gln Met Pro Gly Met Val Ile Ile
 130 135 140
 Asn Arg Ile Ile Pro Gly Phe Glu Thr Arg Cys Val Ala Leu Asp Asp
 145 150 155 160
 Arg Tyr Gly Ala Trp Leu Ala Thr Arg His Leu Ile Gln Gln Gly His
 165 170 175
 Thr Arg Ile Gly Tyr Leu Cys Ser Asn His Pro Ile Ser Asp Ala Glu
 180 185 190
 Asp Arg Leu Gln Gly Tyr Tyr Asp Ala Leu Arg Glu Ala Gly Leu Pro
 195 200 205
 Cys Asn Asp Arg Leu Val Ala Tyr Gly Glu Pro Asp Glu Ser Gly Gly
 210 215 220
 Glu Gln Ala Met Thr Glu Leu Leu Gly Arg Gly Arg Asn Phe Thr Ala
 225 230 235 240
 Val Ala Ser Tyr Asn Asp Ser Met Ala Ala Gly Ala Met Gly Val Leu
 245 250 255
 Asn Asp Asn Gly Ile Asp Val Pro Ala Glu Ile Ser Leu Ile Gly Phe
 260 265 270
 Asp Asp Val Leu Val Ser Arg Tyr Val Arg Pro Arg Leu Thr Thr Val
 275 280 285
 Arg Tyr Pro Ile Val Thr Met Ala Thr Gln Ala Ala Glu Leu Ala Leu
 290 295 300
 Ala Leu Ala Glu His Arg Pro Pro Pro Glu Ile Thr His Leu Phe Ser
 305 310 315 320
 Pro Thr Leu Val Arg Arg His Ser Val Val Ser Pro Ala Glu Ala Val
 325 330 335
 Ser Glu Gln Arg
 340

<210> 7544

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 7544

Tyr Gly Thr Arg Ser Ala Ile Arg Cys Pro Met Pro Ala Val Asn Leu
 1 5 10 15
 Arg His Ile Glu Ile Phe His Ala Val Met Thr Thr Gly Asn Leu Thr
 20 25 30
 Glu Ala Ala His Met Leu His Thr Ser Gln Pro Thr Val Ser Arg Glu
 35 40 45
 Leu Ala Arg Phe Glu Lys Val Leu Gly Leu Lys Leu Phe Glu Arg Thr
 50 55 60
 Arg Gly Arg Leu His Pro Thr Val Gln Gly Leu Arg Leu Phe Glu Glu
 65 70 75 80
 Val Gln Arg Ser Trp Tyr Gly Leu Asp Arg Ile Val Ser Ala Ala Glu
 85 90 95
 Ser Leu Arg Glu Phe Arg Gln Gly Glu Leu Ser Ile Val Cys Leu Pro
 100 105 110

Val	Phe	Ser	Gln	Ser	Phe	Leu	Pro	Val	Leu	Leu	Gln	Pro	Phe	Leu	Ala
	115						120					125			
Arg	Tyr	Pro	Glu	Val	Ser	Leu	Thr	Ile	Val	Pro	Gln	Glu	Ser	Pro	Leu
	130					135					140				
Leu	Glu	Glu	Trp	Leu	Ser	Ala	Gln	Arg	His	Asp	Leu	Gly	Leu	Thr	Glu
145					150					155					160
Thr	Leu	Val	Thr	Pro	Ala	Gly	Thr	Glu	Arg	Thr	Glu	Leu	Leu	Ser	Leu
				165					170						175
Asp	Glu	Val	Cys	Val	Leu	Pro	Ala	Ser	His	Pro	Leu	Ala	His	Lys	Thr
		180						185					190		
Val	Leu	Thr	Pro	Ala	Asp	Phe	His	Gly	Glu	Asn	Tyr	Ile	Ser	Leu	Ser
	195						200					205			
Gln	Thr	Asp	Ser	Tyr	Arg	Gln	Leu	Leu	Asp	Gly	Leu	Phe	Ala	Glu	His
	210					215					220				
Gln	Val	Lys	Arg	Arg	Met	Val	Met	Glu	Thr	His	Ser	Ala	Ala	Ser	Ile
225					230					235					240
Cys	Ala	Met	Val	Arg	Ala	Gly	Val	Gly	Ile	Ser	Val	Val	Asn	Pro	Leu
			245						250					255	
Thr	Ala	Met	Asp	Tyr	Ala	Ser	Ser	Gly	Val	Val	Leu	Arg	Arg	Phe	Ser
		260						265					270		
Val	Ser	Val	Pro	Phe	Thr	Val	Ser	Leu	Ile	Arg	Pro	Leu	His	Arg	Pro
		275					280					285			
Ala	Ser	Ala	Leu	Val	Asp	Ala	Phe	Ser	Glu	His	Leu	Ile	Ala	His	Ala
	290					295					300				
Arg	Gln	Val	Ala	Leu	Arg	Leu	Pro	Asp	Leu	Gln	Lys	Pro	Leu		
305					310					315					

<210> 7545

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7545

Gln	Gly	Glu	Asn	Met	Phe	Ile	Phe	His	Lys	Glu	Thr	Thr	Leu	Glu	Asp
1				5					10					15	
Leu	Gly	Asn	Gly	Val	Thr	Arg	Arg	Ile	Leu	Ala	His	Asp	Gly	Arg	Met
		20						25					30		
Met	Ala	Val	Glu	Val	Asn	Phe	Glu	Glu	Gly	Ala	Ile	Gly	Pro	Met	His
		35					40					45			
Asn	His	Pro	His	Glu	Gln	Leu	Thr	Tyr	Val	Leu	Ser	Gly	Glu	Phe	Glu
		50				55					60				
Phe	Thr	Ile	Gly	Glu	Glu	Lys	His	Val	Val	Thr	Ala	Gly	Asp	Thr	Leu
65				70						75					80
Tyr	Lys	Ala	Pro	His	Val	Met	His	Gly	Cys	Val	Cys	Leu	Lys	Pro	Gly
				85					90					95	
Thr	Leu	Leu	Asp	Thr	Phe	Thr	Pro	Val	Arg	Glu	Asp	Phe	Leu	Lys	
			100					105					110		

<210> 7546

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7546

Thr	Ser	Val	Ile	Phe	Leu	Thr	Gln	Lys	Leu	Asn	Arg	Thr	Ser	Leu	Ser
1				5					10					15	
Asp	Gly	Val	Ile	Lys	Met	Lys	Lys	Val	Leu	Leu	Ser	Ala	Ala	Ile	Ser
		20						25					30		
Ala	Thr	Leu	Gly	Leu	Thr	Ala	Leu	Pro	Ser	Met	Ala	Gln	Asn	Val	Asp
		35					40					45			
Leu	Arg	Met	Ser	Trp	Trp	Gly	Gly	Asn	Gly	Arg	His	Gln	Val	Thr	Leu

50 55 60
 Lys Ala Leu Glu Glu Phe His Lys Gln Asn Pro Asp Ile Asn Val Lys
 65 70 75 80
 Ala Glu Tyr Thr Gly Trp Asp Gly His Leu Ser Arg Leu Thr Thr Gln
 85 90 95
 Ile Ala Gly Gly Thr Glu Pro Asp Val Met Gln Thr Asn Trp Asn Trp
 100 105 110
 Leu Pro Ile Phe Ser Lys Thr Gly Asp Gly Phe Tyr Asp Leu Asn Lys
 115 120 125
 Met Lys Asp Val Ile Asp Leu Ser Gln Phe Asp Pro Lys Glu Leu Gln
 130 135 140
 Thr Thr Thr Val Asp Gly Lys Leu Asn Gly Ile Pro Ile Ser Val Thr
 145 150 155 160
 Ala Arg Val Phe Tyr Phe Asn Asp Glu Thr Trp Lys Lys Ala Gly Ile
 165 170 175
 Ala Tyr Pro Lys Thr Trp Asp Glu Leu Met Ala Ala Gly Lys Thr Phe
 180 185 190
 Glu Ser Lys Leu Gly Lys Gln Tyr Tyr Pro Val Ile Leu Glu His Gln
 195 200 205
 Asp Thr Leu Ala Leu Leu Asn Ser Tyr Met Ile Gln Lys Tyr Asn Ile
 210 215 220
 Pro Ala Val Asp Glu Lys Thr Lys Lys Phe Ser Tyr Thr Lys Glu Gln
 225 230 235 240
 Trp Val Glu Phe Phe Gln Thr Tyr Lys Lys Leu Ile Asp Ser His Val
 245 250 255
 Met Pro Asp Thr Lys Tyr Tyr Ala Ser Phe Gly Lys Ser Asn Met Tyr
 260 265 270
 Glu Met Lys Pro Trp Ile Gln Gly Glu Trp Gly Gly Thr Tyr Met Trp
 275 280 285
 Asn Ser Thr Ile Asn Lys Tyr Ser Asp Asn Leu Lys Pro Pro Ala Lys
 290 295 300
 Leu Glu Leu Gly Asn Tyr Pro Met Leu Pro Gly Ala Thr Asp Ala Gly
 305 310 315 320
 Leu Phe Phe Lys Pro Ala Gln Met Leu Ser Ile Gly Lys Thr Thr Lys
 325 330 335
 Asn Pro Glu Ala Ala Ala Lys Leu Ile Asn Phe Leu Leu Asn Ser Lys
 340 345 350
 Glu Gly Val Asp Thr Leu Gly Leu Glu Arg Gly Val Pro Leu Ser Lys
 355 360 365
 Val Ala Val Gln Tyr Leu Thr Glu Asp Gly Thr Ile Lys Glu Asp Asp
 370 375 380
 Pro Ser Val Ala Gly Leu Arg Leu Ala Gln Ser Leu Pro Ala Lys Leu
 385 390 395 400
 Thr Val Ser Pro Tyr Phe Asp Asp Pro Gln Ile Val Ala Gln Phe Gly
 405 410 415
 Thr Ser Leu Gln Tyr Ile Asp Tyr Gly Gln Lys Thr Val Glu Glu Thr
 420 425 430
 Ala Ala Asp Phe Gln Arg Gln Ala Glu Arg Ile Leu Arg Arg Ala Met
 435 440 445
 Arg
 450

<210> 7547

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 7547

Gly Phe Ala Leu Pro Thr Ser Leu Met Arg Arg Met Val Cys Val Lys
 1 5 10 15
 Leu Gln Thr Ile Thr Trp Lys Gln Glu Phe Arg Met Ala Thr Met Leu

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<210> 7548
<211> 299
<212> PRT
<213> Enterobacter cloacae
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Val 1	Cys	Met	Asn	Glu 5	Asn	Lys	Leu	Leu	Gly 10	Leu	Ala	Trp	Ile	Ser 15	Pro
Tyr	Ile	Ile	Gly 20	Leu	Ile	Leu	Phe	Thr 25	Ala	Phe	Pro	Phe	Val 30	Ser	Ser
Phe	Phe	Leu 35	Ser	Phe	Thr	Asp	Tyr 40	Asp	Leu	Met	Ser	Pro 45	Pro	Val	Phe
Asn	Gly 50	Ile	Glu	Asn	Tyr	Arg 55	Tyr	Met	Phe	Thr	Glu 60	Asp	Thr	Leu	Phe
Trp	Lys	Ser	Met	Gly	Val	Thr	Phe	Ala	Tyr	Val	Phe	Leu	Thr	Ile	Pro

65					70					75				80	
Leu	Lys	Leu	Ala	Phe	Ala	Leu	Gly	Ile	Ala	Phe	Val	Leu	Asn	Phe	Lys
				85					90					95	
Leu	Arg	Gly	Ile	Gly	Phe	Phe	Arg	Thr	Ala	Tyr	Tyr	Ile	Pro	Ser	Ile
			100					105					110		
Leu	Gly	Ser	Ser	Val	Ala	Ile	Ala	Val	Leu	Trp	Arg	Ala	Leu	Phe	Ala
		115					120					125			
Ile	Asp	Gly	Leu	Leu	Asn	Ser	Phe	Ile	Gly	Val	Phe	Gly	Phe	Asp	Pro
	130					135					140				
Val	Asn	Trp	Leu	Gly	Glu	Pro	Ser	Leu	Ala	Leu	Met	Ser	Val	Thr	Leu
145					150					155					160
Leu	Arg	Val	Trp	Gln	Phe	Gly	Ser	Ala	Met	Val	Ile	Phe	Leu	Ala	Ala
			165						170					175	
Leu	Gln	Asn	Val	Pro	Gln	Ser	Gln	Tyr	Glu	Ala	Ala	Met	Ile	Asp	Gly
		180						185					190		
Ala	Ser	Lys	Trp	Gln	Met	Phe	Met	Lys	Val	Thr	Val	Pro	Leu	Ile	Thr
	195						200					205			
Pro	Val	Ile	Phe	Phe	Asn	Phe	Ile	Met	Gln	Thr	Thr	Gln	Ala	Phe	Gln
	210					215						220			
Glu	Phe	Thr	Gly	Pro	Tyr	Val	Ile	Thr	Gly	Gly	Gly	Pro	Thr	Tyr	Ser
225					230					235					240
Thr	Tyr	Leu	Phe	Ser	Leu	Tyr	Ile	Tyr	Asp	Thr	Ala	Phe	Lys	Tyr	Phe
				245					250					255	
Asp	Met	Gly	Tyr	Gly	Ala	Ala	Leu	Ala	Trp	Ile	Leu	Phe	Leu	Val	Val
		260					265						270		
Ala	Val	Phe	Ala	Gly	Ile	Ala	Phe	Lys	Ser	Ser	Lys	Tyr	Trp	Val	Phe
	275						280					285			
Tyr	Ser	Ala	Asp	Lys	Gly	Gly	Lys	Asn	Gly						
	290					295									

<210> 7549

<211> 475

<212> PRT.

<213> Enterobacter cloacae

<400> 7549

Ser	Gln	Asn	Lys	Ala	Pro	Val	Gly	Ala	Ile	Phe	Gly	Ile	Pro	Ile	Val
1				5					10					15	
Ser	Gly	Cys	Pro	Ser	Tyr	Ser	Ile	Lys	Ala	Leu	Leu	Leu	Arg	Tyr	Tyr
			20					25					30		
Pro	Met	Ala	Phe	Gln	Glu	Lys	Leu	Ile	Asp	Ala	Leu	Gly	Ser	Phe	Ala
		35					40					45			
Thr	Thr	Phe	Asn	Ser	Tyr	Arg	Tyr	Ile	Gln	Ala	Ile	Lys	Ser	Ala	Phe
	50					55					60				
Ile	Thr	Leu	Met	Pro	Val	Ile	Ile	Val	Gly	Ala	Phe	Ser	Val	Leu	Ile
65					70					75					80
Ser	Asn	Met	Val	Leu	Asp	Pro	Lys	Asn	Gly	Leu	Ala	Ser	Phe	Gln	Ser
			85					90						95	
Leu	Ser	Phe	Leu	Ala	Ala	Leu	Lys	Pro	Ile	Thr	Ser	Ala	Leu	Asn	Tyr
		100						105					110		
Ala	Thr	Leu	Asn	Phe	Leu	Asn	Ile	Gly	Ala	Val	Phe	Leu	Ile	Gly	Ile
	115						120					125			
Glu	Leu	Gly	Arg	Ile	Asn	Gly	Ile	Lys	Ser	Leu	Phe	Pro	Gly	Leu	Leu
	130					135						140			
Ala	Val	Ile	Cys	Phe	Ile	Cys	Val	Thr	Pro	Thr	Thr	Val	Glu	Met	Leu
145					150					155					160
Val	Asp	Gly	Glu	Met	His	Val	Val	Lys	Asp	Val	Leu	Leu	Arg	Gln	Phe
			165					170						175	
Ser	Asp	Thr	Arg	Ser	Leu	Phe	Leu	Gly	Met	Phe	Ile	Ala	Ile	Leu	Ser
		180						185					190		
Val	Glu	Ile	Tyr	Cys	Trp	Leu	Glu	Asn	Arg	Arg	Gly	Leu	Lys	Ile	Arg

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<210> 7550
<211> 498
<212> PRT
<213> Enterobacter cloacae
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<400> 7550															
Lys	Leu	Pro	His	Ala	Ala	Gln	Ser	Arg	Pro	Arg	Cys	Asn	Lys	Pro	Pro
1				5					10					15	
Ile	Thr	His	Glu	Asp	Arg	Met	Ser	Ile	Lys	Gln	Ile	Thr	Ile	Pro	Gln
			20					25					30		
Asp	Phe	Met	Leu	Gly	Ala	Ala	Ala	Ser	Ala	Trp	Gln	Thr	Glu	Gly	Trp
		35					40					45			
Ser	Gly	Lys	Lys	Pro	Gly	Gln	Asp	Ser	Trp	Ile	Asp	Leu	Trp	Tyr	Lys
	50					55					60				
Asn	Asp	Arg	His	Val	Trp	His	Asn	Gly	Tyr	Gly	Pro	Ala	Val	Ala	Thr
65					70					75					80
Asp	Phe	Ile	Asn	Arg	Phe	Arg	Glu	Asp	Val	Ala	Leu	Met	Lys	Gln	Ala
				85					90					95	
Gly	Leu	Thr	His	Tyr	Arg	Thr	Ser	Ile	Asn	Trp	Ser	Arg	Phe	Leu	Thr
			100					105					110		
Asp	Tyr	Glu	Asn	Ala	Thr	Val	Asp	Glu	Glu	Tyr	Ala	Ala	Tyr	Tyr	Asp
		115					120					125			
Ala	Leu	Phe	Asp	Glu	Met	His	Arg	Gln	Gly	Ile	Glu	Pro	Met	Ile	Cys
	130					135					140				
Leu	Glu	His	Tyr	Glu	Leu	Pro	Gly	Val	Gln	Leu	Glu	Thr	Tyr	Gly	Gly

145 150 155 160
 Trp Ala Ser Lys His Val Val Glu Leu Phe Val Arg Tyr Ala Glu Lys
 165 170 175
 Val Phe Glu Arg Phe His Gly Lys Val Thr Arg Trp Phe Thr Phe Asn
 180 185 190
 Glu Pro Ile Val Val Gln Thr Arg Val Tyr Leu Asp Ala Leu Arg Trp
 195 200 205
 Pro Tyr Glu Gln Asn Thr Ser Thr Trp Met Gln Trp Asn His His Lys
 210 215 220
 Val Leu Ala Thr Ala Lys Val Val Lys Leu Phe Arg Glu Lys Gly Tyr
 225 230 235 240
 Asp Gly Ser Val Gly Cys Ile Leu Asn Pro Glu Val Thr Tyr Pro Arg
 245 250 255
 Ser Arg Ala Pro His Asp Glu Arg Ala Ala Glu Met Tyr Asp Leu Phe
 260 265 270
 Tyr Asn Arg Val Phe Leu Asp Pro Leu Val His Gly Arg Tyr Pro Gln
 275 280 285
 Ala Leu Phe Thr Leu Leu Ala Gln His Gln Val Gln Trp Asp Tyr Thr
 290 295 300
 Ala Asp Glu Leu Ala Leu Ile Ala Asp Asn Thr Val Asp Glu Leu Gly
 305 310 315 320
 Ile Asn Leu Tyr Tyr Pro His Arg Val Lys Ala Pro Ser Arg Ala Trp
 325 330 335
 His Pro Glu Thr Pro Phe His Pro Ala Tyr Tyr Tyr Glu Pro Phe Glu
 340 345 350
 Leu Pro Gly Arg Arg Met Asn Thr Ser Arg Gly Trp Glu Ile Phe Pro
 355 360 365
 Arg Ile Ile Tyr Asp Met Ala Met Arg Ile Lys Asn Asp Tyr Arg Asn
 370 375 380
 Ile Asp Trp Phe Val Ala Glu Ser Gly Met Gly Val Glu Asn Glu Ala
 385 390 395 400
 Gln Phe Arg Asn Arg Asp Gly Ile Ile Asp Asp Thr Tyr Arg Ile Ala
 405 410 415
 Phe Ile Ser Glu His Leu Tyr Tyr Thr Leu Leu Ala Arg Glu Ala Gly
 420 425 430
 Ala Asn Cys His Gly Tyr Met Leu Trp Ala Phe Thr Asp Asn Val Ser
 435 440 445
 Pro Met Asn Ala Phe Lys Asn Arg Tyr Gly Leu Ile Glu Ile Asp Leu
 450 455 460
 Glu Asn Gln Arg Ala Arg Arg Ala Lys Lys Ser Ala Ser Trp Phe Arg
 465 470 475 480
 Gln Leu Arg Asp Glu Arg Val Leu Thr Leu Arg Val Asp Asp Glu Trp
 485 490 495
 Lys

<210> 7551

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 7551

Leu Lys Asn Thr Gly Glu Asn Val Asp Lys Ala Val Ile Leu Pro Glu
 1 5 10 15
 Lys Lys Gln Tyr Gln Glu Ile Gly Glu Asp Leu Arg Ala Gln Ile Ile
 20 25 30
 Gln Gly His Tyr Pro Val Gly Ser Arg Leu Pro Pro Glu Arg Asn Ile
 35 40 45
 Ala Glu Thr Tyr Gly Val Ser Arg Thr Ile Val Arg Glu Ala Leu Leu
 50 55 60
 Met Leu Glu Leu Gln Gly Thr Val Asp Ile Arg Gln Gly Ser Gly Val

65					70					75					80
Tyr	Val	Met	Arg	Ile	Pro	Glu	Glu	His	Glu	Asn	Glu	Glu	Glu	Arg	Phe
				85					90					95	
Leu	Asn	Ser	Asp	Val	Gly	Pro	Phe	Glu	Ile	Leu	Gln	Ala	Arg	Gln	Leu
			100					105					110		
Leu	Glu	Ser	Asn	Ile	Ala	Ala	Phe	Ala	Ala	Lys	Met	Ala	Thr	Arg	Ala
		115					120					125			
Asp	Ile	Asp	Asn	Leu	Arg	Arg	Ile	Ile	Glu	Gln	Glu	Gln	Arg	Ala	Ile
	130					135					140				
Ala	Ala	Asp	Asp	Arg	Ser	Gln	Asp	Asn	Asn	Lys	Met	Phe	His	Leu	Val
145					150					155					160
Leu	Ala	Gly	Ala	Thr	Gln	Asn	Gln	Met	Leu	Leu	Ala	Thr	Val	Glu	Ser
				165					170					175	
Val	Trp	His	His	Met	Asp	Ser	Ser	Pro	Leu	Trp	Gln	Gln	Phe	Asn	Gly
			180					185					190		
His	Ile	Ala	Ser	Arg	Ala	Trp	Arg	Leu	Lys	Trp	Leu	Gly	Asp	Arg	Gln
		195					200					205			
Thr	Ile	Leu	Ala	Ala	Leu	Arg	Arg	Arg	Asp	Val	Met	Gly	Ala	Trp	Gln
	210					215					220				
Ala	Met	Phe	Gln	His	Leu	Glu	Asn	Val	Lys	Lys	Ser	Leu	Leu	Glu	Leu
225					230					235					240
Ser	Asp	Glu	Asp	Ala	Pro	Asp	Phe	Asp	Gly	Tyr	Leu	Phe	Glu	Ser	Val
				245					250					255	
Pro	Leu	Phe	Gln	Gly	Lys	Leu	Val								
			260					265							

<210> 7552

<211> 774

<212> PRT

<213> Enterobacter cloacae

<400> 7552

Leu	Val	Arg	Ile	Pro	Gly	Thr	Phe	Ser	Tyr	Ser	Ser	Leu	Ala	Pro	Thr
1				5					10					15	
Cys	Ala	Asp	Ala	Gln	Val	Phe	Phe	Arg	Leu	Cys	Phe	Cys	Tyr	Arg	Ser
			20					25					30		
Leu	Thr	Thr	Ser	Arg	Val	Ile	Cys	His	His	Leu	Tyr	Leu	Ser	His	Trp
		35					40					45			
Leu	Ala	Lys	Gly	Val	Glu	Met	Leu	Phe	Gly	Phe	Phe	Arg	Thr	Leu	Phe
	50					55					60				
Arg	Val	Leu	Phe	Arg	Ile	Arg	Val	Thr	Gly	Asp	Thr	Gln	Ala	Leu	Tyr
65					70					75					80
Gly	Glu	Arg	Val	Leu	Ile	Thr	Pro	Asn	His	Val	Ser	Phe	Leu	Asp	Gly
				85					90					95	
Val	Leu	Leu	Ala	Leu	Phe	Leu	Pro	Val	Arg	Pro	Val	Phe	Ala	Val	Tyr
			100					105					110		
Ser	Ser	Ile	Ser	Glu	Lys	Trp	Tyr	Met	Arg	Trp	Leu	Lys	Pro	Leu	Ile
		115					120					125			
Asp	Phe	Val	Pro	Leu	Asp	Pro	Thr	Lys	Pro	Met	Met	Ile	Lys	His	Leu
	130					135					140				
Val	Arg	Leu	Ile	Gly	Gln	Gly	Arg	Pro	Val	Val	Ile	Phe	Pro	Glu	Gly
145					150					155					160
Arg	Ile	Ser	Val	Thr	Gly	Ser	Leu	Met	Lys	Ile	Tyr	Asp	Gly	Ala	Gly
				165					170					175	
Phe	Val	Ala	Ala	Lys	Ser	Gln	Ala	Thr	Val	Val	Pro	Leu	Arg	Ile	Asp
			180					185					190		
Gly	Ala	Glu	Leu	Thr	Phe	Phe	Ser	Arg	Leu	Lys	Gly	Leu	Val	Lys	Gln
		195					200					205			
Arg	Leu	Phe	Pro	Lys	Ile	Thr	Leu	His	Ile	Leu	Pro	Pro	Thr	Ser	Leu
	210					215					220				
Pro	Met	Pro	Glu	Ala	Pro	Arg	Ala	Arg	Asp	Arg	Arg	Lys	Ile	Ala	Gly

225					230					235					240
Glu	Met	Leu	His	Gln	Ile	Met	Met	Glu	Ala	Arg	Met	Ala	Val	Arg	Pro
				245					250					255	
Arg	Glu	Thr	Leu	Tyr	Glu	Ser	Leu	Leu	Ser	Ala	Gln	Tyr	Arg	Tyr	Gly
			260					265					270		
Ala	Lys	Lys	Asn	Cys	Ile	Glu	Asp	Ile	Asn	Phe	Thr	Pro	Asp	Thr	Tyr
		275					280					285			
Arg	Lys	Leu	Leu	Thr	Lys	Thr	Leu	Phe	Val	Gly	Arg	Ile	Leu	Glu	Lys
	290					295					300				
Tyr	Ser	Lys	Gln	Gly	Glu	Lys	Ile	Gly	Leu	Met	Leu	Pro	Asn	Ala	Gly
305				310						315					320
Ile	Ser	Ala	Ala	Val	Ile	Phe	Gly	Ala	Val	Ser	Arg	Gly	Arg	Ile	Pro
			325						330					335	
Ala	Met	Met	Asn	Tyr	Thr	Ala	Gly	Val	Lys	Gly	Leu	Ser	Ser	Ala	Ile
			340				345						350		
Thr	Ala	Ala	Gln	Ile	Asn	Thr	Val	Phe	Thr	Ser	Arg	Gln	Phe	Leu	Asp
		355					360					365			
Lys	Gly	Lys	Leu	Trp	His	Leu	Pro	Glu	Gln	Leu	Thr	Gln	Val	Arg	Trp
	370					375					380				
Val	Phe	Leu	Glu	Asp	Leu	Lys	Ala	Asp	Val	Thr	Thr	Ala	Asp	Lys	Leu
385				390						395					400
Trp	Ile	Phe	Ala	His	Leu	Leu	Met	Pro	Arg	Leu	Ala	Gln	Val	Lys	Gln
			405						410					415	
Gln	Pro	Glu	Asp	Asp	Ala	Ile	Ile	Leu	Phe	Thr	Ser	Gly	Ser	Glu	Gly
			420					425					430		
Asn	Pro	Lys	Gly	Val	Val	His	Ser	His	Lys	Ser	Ile	Leu	Ala	Asn	Val
		435					440					445			
Glu	Gln	Ile	Lys	Thr	Ile	Ala	Asp	Phe	Thr	Ala	Asn	Asp	Arg	Phe	Met
	450					455					460				
Ser	Ala	Leu	Pro	Leu	Phe	His	Ser	Phe	Gly	Leu	Thr	Val	Gly	Leu	Phe
465				470						475					480
Thr	Pro	Leu	Leu	Thr	Gly	Ala	Glu	Val	Phe	Leu	Tyr	Pro	Ser	Pro	Leu
			485						490					495	
His	Tyr	Arg	Ile	Val	Pro	Glu	Leu	Val	Tyr	Asp	Arg	Asn	Cys	Thr	Val
			500					505					510		
Leu	Phe	Gly	Thr	Ser	Thr	Phe	Leu	Gly	Asn	Tyr	Ala	Arg	Phe	Ala	Asn
	515						520					525			
Pro	Tyr	Asp	Phe	Phe	Arg	Val	Arg	Tyr	Val	Val	Ala	Gly	Ala	Glu	Lys
	530					535					540				
Leu	Gln	Asp	Ser	Thr	Arg	Gln	Ile	Trp	Gln	Asp	Lys	Phe	Gly	Leu	Arg
545				550						555					560
Ile	Leu	Glu	Gly	Tyr	Gly	Val	Thr	Glu	Cys	Ala	Pro	Val	Val	Ser	Ile
			565						570					575	
Asn	Val	Pro	Met	Ala	Ala	Lys	Pro	Gly	Thr	Val	Gly	Arg	Ile	Leu	Pro
		580						585							

Arg Asp Ala Leu Leu Arg Tyr Ala Arg Glu His Gly Ile Pro Glu Leu
 725 730 735
 Ala Val Pro Arg Asp Ile Arg Tyr Leu Lys Gln Leu Pro Val Leu Gly
 740 745 750
 Ser Gly Lys Pro Asp Phe Val Thr Leu Lys Gly Met Val Glu Glu Ala
 755 760 765
 Glu Gln Gln Asn Ala
 770

<210> 7553

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 7553

Phe Leu His Ser Cys Met Ile Cys Tyr Thr Gly Thr Ser Gln Ala Glu
 1 5 10 15
 Phe His Cys Ile Leu Lys Arg Arg Thr Val Met Ser Ala Met Asp Phe
 20 25 30
 Lys Lys His Thr Asp Leu Asn Phe Pro His Tyr Ala Pro Pro Ala Val
 35 40 45
 Ser Ala Lys Glu Ile Asp Leu Leu Gly Leu Leu Asp Val Leu Leu Ala
 50 55 60
 Ala Lys Lys Arg Ile Ile Thr Ile Val Phe Ala Phe Ala Leu Val Gly
 65 70 75 80
 Leu Ala Ile Ala Phe Leu Ile Pro Gln Lys Trp Thr Ser Lys Ala Val
 85 90 95
 Ile Thr Pro Ala Glu Gln Thr Gln Trp Ser Ser Leu Arg Gln Met Met
 100 105 110
 Val Ala Leu Gln Val Leu Asp Val Asp Val Lys Ile Thr Arg Ala Asp
 115 120 125
 Val Cys Asn Leu Phe Ile Lys Lys Phe Gln Ser Gln Ser Leu Leu Glu
 130 135 140
 Glu Tyr Met Lys Ser Ser Pro Tyr Val Met Ala Gln Leu Asp Gly Ala
 145 150 155 160
 Asp Val Asp Pro Leu Glu Leu His Arg Ala Val Val Asn Ile Ala Glu
 165 170 175
 Lys Met Lys Ala Val Asp Asn Thr Gln Glu Lys Asn Ala Asp Lys Ala
 180 185 190
 Pro Tyr Leu Ser Trp Thr Leu Ser Phe Thr Ala Pro Thr Ala Glu Asp
 195 200 205
 Ala Gln Lys Val Leu Asn Gly Tyr Ile Gln Tyr Ile Ser Arg Ile Val
 210 215 220
 Glu Gln Glu Thr Met Gln Asn Ile Arg Asp Gln Leu Ile Leu Lys Thr
 225 230 235 240
 Lys Thr Val Gln Gln Gln Leu Glu Ser Asp Arg Val Arg Leu Thr Asn
 245 250 255
 Ile His Asn Thr Asn Leu Gln Arg Leu Asn Tyr Ser Leu Glu Val Ala
 260 265 270
 Asn Ala Ala Gly Ile Lys Lys Pro Val Tyr Ser Asn Gly Gln Ala Val
 275 280 285
 Lys Asp Asp Pro Asp Tyr Ser Val Ala Leu Gly Ala Asp Gly Ile Ala
 290 295 300
 Gln Lys Leu Gln Ile Glu Lys Asn Leu Lys Asp Val Ser Glu Leu Asn
 305 310 315 320
 Ala Asp Phe Gln Asn Arg Glu Tyr Tyr Leu Ala Gln Leu Gln Lys Leu
 325 330 335
 Ser Phe Glu Asp Val Ser Leu Glu Pro Phe Lys Tyr Gln Leu Ser Pro
 340 345 350
 Ser Met Pro Val Lys Lys Asp Gly Pro Gly Lys Ala Leu Ile Val Leu
 355 360 365

Leu Ala Cys Ile Leu Gly Gly Leu Phe Ala Cys Gly Ser Val Leu Leu
 370 375 380
 Arg Glu Ala Met Ser Thr Arg Asn Pro Leu Pro Glu Gln Leu Pro Glu
 385 390 395 400
 Pro Val Thr Glu
 405

<210> 7554
 <211> 395
 <212> PRT
 <213> Enterobacter cloacae

<400> 7554

His Gln Lys Arg Arg Ser Thr Glu Arg Leu Phe Leu Phe Gln Glu Ile
 1 5 10 15
 Phe Ala Tyr Arg Arg Lys Gly Ile Gln Gln Gly Ala Gly Phe Gln Ala
 20 25 30
 Asn Ala Ala Val His His Val Arg Arg Phe Ile Glu Gly Val Ala Arg
 35 40 45
 Gly His His Met Leu Leu Leu Ala Asn Gly Glu Leu Lys Phe Pro Arg
 50 55 60
 Glu Asn Val Gly Glu Leu Leu Met Arg Val Val Met His Arg Ala Asn
 65 70 75 80
 Arg Ala Phe Leu Glu Ile His Phe His Arg His His Pro Ala Val Val
 85 90 95
 Arg Gln Asn Thr Thr Arg His Ala Val Ala Gln Ile Leu Lys Arg Gly
 100 105 110
 Leu Phe Met Glu Asn Lys His Ile Phe Ala Leu Leu Cys Asn Glu Thr
 115 120 125
 Leu Phe Gln Leu Thr Tyr Leu Thr Arg Arg Glu Lys Glu Thr Phe Ser
 130 135 140
 Gln Ile Thr Gly Lys Ala Ile Thr Ser Leu Leu His Trp Val Lys Arg
 145 150 155 160
 Thr Gly Gly Lys Met Lys Thr Ile Gly Leu Leu Gly Gly Met Ser Trp
 165 170 175
 Glu Ser Thr Ile Pro Tyr Tyr Arg Leu Ile Asn Glu Gly Val Lys Gln
 180 185 190
 Arg Leu Gly Gly Leu His Ser Ala Ser Leu Leu Leu His Ser Val Asp
 195 200 205
 Phe His Glu Ile Glu Ala Cys Gln Ser Ser Gly Glu Trp Asp Lys Ala
 210 215 220
 Gly Gln Ile Leu Ala Asp Ala Ala Leu Gly Leu Glu Arg Ala Gly Ala
 225 230 235 240
 Gln Gly Ile Leu Leu Cys Thr Asn Thr Met His Lys Val Ala Ser His
 245 250 255
 Ile Glu Asp Arg Cys Ser Leu Pro Phe Leu His Ile Ala Asp Ala Thr
 260 265 270
 Gly Arg Ala Ile Arg Thr Ala Gly Met Thr Arg Val Ala Leu Leu Gly
 275 280 285
 Thr Arg Tyr Thr Met Glu Gln Asp Phe Tyr Arg Gly Arg Leu Ser Ser
 290 295 300
 Gln Phe Gly Ile Glu Ser Leu Ile Pro Glu Glu Ala Asp Arg Ala Arg
 305 310 315 320
 Ile Asn Gln Ile Ile Phe Asp Glu Leu Cys Leu Gly Thr Phe Ser Glu
 325 330 335
 Ala Ser Arg Ala Trp Tyr Val Ser Val Ile Glu Lys Leu Ala Gln Gln
 340 345 350
 Gly Ala Glu Gly Val Ile Phe Gly Cys Thr Glu Ile Gly Leu Leu Val
 355 360 365
 Pro Ala Asp Arg Ser Pro Ile Ser Val Phe Asp Thr Ala Ala Ile His
 370 375 380

JC530 U.S. PRO

09/252691



02/18/99

Ala Ala Asp Ala Val Glu Phe Met Leu Ser
385 390 395

<210> 7555

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7555

Ala	Cys	Ser	Ile	Ser	Phe	Leu	His	Arg	Leu	Thr	Ile	Lys	Arg	Tyr	Phe
1				5					10					15	
Leu	Phe	Ser	Ser	Gly	Tyr	Gly	Val	Met	Ile	Lys	Asn	Arg	Phe	Pro	Glu
			20					25					30		
Thr	Thr	Met	Pro	Arg	Pro	Leu	Asn	Gln	Thr	Glu	Thr	Asp	Leu	Asn	Ala
		35					40					45			
Asp	Asn	Leu	Leu	Arg	Leu	Pro	Ala	Glu	Phe	Gly	Cys	Pro	Val	Trp	Val
	50					55					60				
Tyr	Asp	Ala	Gln	Ile	Val	Arg	Glu	Lys	Ile	Ala	Ala	Leu	His	Gln	Phe
65					70					75					80
Asp	Val	Val	Arg	Phe	Ala	Gln	Lys	Ala	Cys	Ser	Asn	Ile	His	Ile	Leu
				85					90					95	
Arg	Leu	Met	Arg	Glu	Gln	Gly	Val	Lys	Val	Asp	Ser	Val	Ser	Leu	Gly
			100					105						110	
Glu	Ile	Glu	Arg	Ala	Leu	Val	Ala	Gly	Phe	Asp	Pro	Lys	Ala	Asp	Ser
		115					120						125		
Asp	Ala	Ile	Val	Phe	Thr	Ala	Asp	Leu	Ile	Asp	Asp	Ala	Thr	Leu	Ala
	130					135						140			
Arg	Val	His	Glu	Leu	Gln	Ile	Pro	Val	Asn	Ala	Gly	Ser	Val	Asp	Met
				150						155					160
Leu	Glu	Gln	Leu	Gly	Gln	Val	Ser	Pro	Gly	His	Arg	Val	Trp	Leu	Arg
				165					170					175	
Val	Asn	Pro	Gly	Phe	Gly	His	Gly	His	Ser	Gln	Lys	Thr	Asn	Thr	Gly
			180					185					190		
Gly	Glu	Asn	Ser	Lys	His	Gly	Ile	Trp	Tyr	Ala	Asp	Met	Pro	Ala	Ala
		195					200					205			
Leu	Glu	Val	Leu	Gln	Arg	Tyr	Asn	Leu	Lys	Leu	Val	Gly	Ile	His	Met
		210				215					220				
His	Ile	Gly	Ser	Gly	Val	Asp	Tyr	Gly	His	Leu	Glu	Gln	Val	Cys	Gly
225					230					235					240
Ala	Met	Val	Arg	Gln	Val	Ile	Asp	Phe	Gly	Gln	Asp	Leu	Glu	Ala	Ile
				245					250					255	
Ser	Ala	Gly	Gly	Gly	Leu	Ser	Ile	Pro	Tyr	Arg	Glu	Gly	Glu	Glu	Ala
			260					265					270		
Ile	Asp	Thr	Asp	His	Tyr	Tyr	Gly	Leu	Trp	Ser	Ala	Ala	Arg	Asp	Arg
		275					280						285		
Ile	Ala	Ala	His	Leu	Gly	His	Ala	Val	Lys	Leu	Glu	Ile	Glu	Pro	Gly
	290					295					300				
Arg	Phe	Leu	Val	Ala	Glu	Ala	Gly	Val	Leu	Val	Ala	Gln	Val	Arg	Ser
305					310					315					320
Val	Lys	Glu	Met	Gly	Ser	Arg	His	Phe	Val	Leu	Ile	Asp	Ala	Gly	Phe
				325					330					335	
Asn	Asp	Leu	Met	Arg	Pro	Ser	Met	Tyr	Gly	Ser	Tyr	His	His	Ile	Thr
			340					345					350		
Ala	Leu	Ala	Ala	Asp	Gly	Arg	Asp	Leu	Val	Asn	Ala	Pro	Arg	Ile	Glu
		355					360					365			
Thr	Val	Val	Ala	Gly	Pro	Leu	Cys	Glu	Ser	Gly	Asp	Val	Phe	Thr	Gln
		370				375					380				
Gln	Glu	Gly	Gly	Lys	Val	Glu	Thr	Arg	Ser	Leu	Pro	Glu	Val	Lys	Pro
385					390					395					400
Gly	Asp	Tyr	Leu	Val	Leu	His	Asp	Thr	Gly	Ala	Tyr	Gly	Ala	Ser	Met
				405					410					415	

Ser Ser Asn Tyr Asn Ser Arg Pro Leu Leu Pro Glu Val Leu Phe Asp
 420 425 430
 Asn Gly Val Ala Arg Leu Ile Arg Arg Arg Gln Thr Ile Gln Glu Leu
 435 440 445
 Leu Ala Leu Glu Leu Val
 450 455

<210> 7556

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 7556

Arg Ala Trp Leu Lys Arg Gln Asn Ser Lys Met Arg Glu Ser Val His
 1 5 10 15
 Thr Asn Thr Ser Ile Trp Ser Lys Gly Met Met Ala Val Ile Ala Ala
 20 25 30
 Gln Phe Leu Ser Ala Phe Gly Asp Asn Ala Leu Leu Phe Ala Thr Leu
 35 40 45
 Ala Leu Leu Lys Ala Glu Phe Tyr Pro Asp Trp Ser Gln Pro Ile Leu
 50 55 60
 Gln Met Val Phe Val Gly Ala Tyr Ile Val Phe Ala Pro Phe Val Gly
 65 70 75 80
 Gln Val Ala Asp Ser Phe Pro Lys Gly Arg Val Met Met Phe Ala Asn
 85 90 95
 Ser Leu Lys Leu Leu Gly Ala Ala Ser Ile Cys Phe Gly Ile Asn Pro
 100 105 110
 Phe Val Gly Tyr Thr Leu Val Gly Ile Gly Ala Ala Ala Tyr Ser Pro
 115 120 125
 Ala Lys Tyr Gly Ile Leu Gly Glu Leu Thr Thr Gly Asp Lys Leu Val
 130 135 140
 Lys Ala Asn Gly Leu Met Glu Ser Ser Thr Ile Ala Ala Ile Leu Leu
 145 150 155 160
 Gly Ser Val Ala Gly Gly Val Leu Ala Asp Trp His Val Leu Ala Ala
 165 170 175
 Leu Gly Ile Cys Ala Leu Met Tyr Gly Gly Ala Val Ile Ala Asn Leu
 180 185 190
 Phe Ile Pro Lys Leu Ala Val Ala Arg Pro Gly Gln Ser Trp Arg Phe
 195 200 205
 Gly Pro Met Thr Gly Ser Phe Phe Asn Ala Cys Arg Val Leu Trp Arg
 210 215 220
 Asn Gly Glu Thr Leu Phe Ser Leu Met Gly Thr Ser Met Phe Trp Gly
 225 230 235 240
 Ala Gly Val Thr Leu Arg Phe Leu Leu Val Leu Trp Val Pro Val Ala
 245 250 255
 Leu Gly Ile Thr Asp Asn Ala Thr Pro Thr Tyr Leu Asn Ala Met Val
 260 265 270
 Ala Val Arg Ile Val Val Arg Ala Gly Ala Ala Ala Lys Leu Val Thr
 275 280 285
 Leu Glu Asn Arg Pro Arg Ala Ala Cys Leu Pro Gly Ile Leu Asp Trp
 290 295 300
 Gly Pro Ala Phe Cys Ser
 305 310

<210> 7557

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7557

Ser Arg Gly Arg Ile Lys Met Gln Tyr Thr Arg Leu Gly Lys Ser Asp

```

1          5          10          15
Leu Leu Val Ser Arg Ile Cys Met Gly Cys Met Gly Phe Gly Asp Pro
20
Leu Thr Gly Gln His Arg Trp Thr Leu Asp Glu Thr Ala Ser Arg Asp
35
Ile Ile Arg Tyr Gly Leu Glu Lys Gly Ile Asn Phe Tyr Asp Thr Ala
50
Ile Ala Tyr Gln Asn Gly Ser Ser Glu Arg Tyr Val Gly Arg Ala Leu
65
Arg Glu Met Ala Lys Arg Glu Asp Val Val Leu Ala Thr Lys Phe Leu
85
Pro Arg Thr Ala Ala Gln Ile Ala Ala Gly Ile Gly Gly Lys Glu Ala
100
Ile Ala Arg Ser Leu Asp Gln Ser Leu Gln Asn Leu Gly Met Asp Tyr
115
Ile Asp Leu Tyr Ile Tyr His Ile Trp Asp Tyr Asn Thr Pro Val Ile
130
Glu Val Leu Glu Ala Leu His Ala Ala Val Thr Ala Gly Lys Val Arg
145
Ala Ile Gly Ile Ser Asn Cys Tyr Ala Trp Gln Leu Ala Lys Ala Asn
165
Ala Leu Ala
180

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<210> 7558

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7558

```

Arg Glu Gly Leu Thr Ala Phe Val Ser Val Gln Ser His Tyr Asn Leu
1          5          10          15
Ile Met Arg Glu Asp Glu Arg Glu Leu Phe Gly Leu Cys Ala Glu Asp
20
Asp Ile Ala Met Thr Pro Tyr Ser Ala Leu Ala Ser Gly Arg Leu Ser
35
Arg Lys Glu Gly His Thr Arg Arg Ala Ser Glu Asp Ala Tyr Ala Arg
50
Gly Lys Tyr Asp Ser Thr Ala Glu Gln Asp Arg Ser Ile Ile Glu Arg
65
Val Ala Glu Leu Ala Glu Arg His Gln Val Ser Met Thr Glu Ile Ser
85
Leu Ala Trp Leu Leu Thr Lys Val Thr Ser Pro Val Val Gly Ala Arg
100
Lys Lys Ile Thr Ser Met Ala Arg
115
120

```

<210> 7559

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7559

```

Thr Arg Ile Tyr Arg Val Leu Cys Gln Gln Gly Met Pro Leu Arg Leu
1          5          10          15
Leu Ser Ile Tyr Asn Ser His Leu Arg Asn Thr Met His Ile Arg Lys
20
Gly Leu Ser Thr Asp Leu Ala Arg Leu Glu Cys Cys Asp Phe Ser Phe
35
Thr Val Asp Glu Ile Ala Arg Glu Pro Phe Leu Asn Gly Asp Leu His
50
55
60

```

```

Ile Glu Ala Leu Thr Glu Pro Tyr Leu Lys Thr Tyr Glu Leu Asp Leu
65          70          75          80
Gln Thr Leu Glu Asn His Cys Val Asn Pro Asp Ser Ile Phe Leu Ile
          85          90          95
Ala Glu Thr Asp Asp Gly Glu Ile Ala Gly Phe Ile Thr Ala Ser Cys
          100         105         110
Asn Trp Asn Lys Phe Ile Ser Val Asp Tyr Ile Ala Val Glu Arg Ser
          115         120         125
Lys Arg Arg Thr Gly Ala Ala His Lys Leu Met Ser Ala Thr His Val
          130         135         140
Trp Ala Arg Ser Leu Asn Ala Pro Gly Leu Arg Leu Glu Thr Gln Asn
          145         150         155         160
Val Asn Val Ser Ala Cys Leu Phe Tyr Arg His Tyr Gly Phe Ile Leu
          165         170         175
Gly Gly Tyr Asp Arg Tyr Leu Tyr Asn Ala Leu Pro Glu Lys Asp Glu
          180         185         190
Val Ala Leu Phe Trp Tyr Tyr Met Leu Ala
          195         200

```

<210> 7560

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7560

```

Arg Leu Ile Leu Glu Leu Thr Ile Lys Glu Ala Gly Met Ser Thr Gly
1          5          10          15
Asn Asn His Thr Leu His Tyr Pro Arg Pro Pro Phe Ala Glu Gln Pro
          20          25          30
Gln Arg Ala Pro Gly Leu Ala Ser Glu Met Lys Pro Ile Pro Asp His
          35          40          45
Gly Glu Thr Ser Tyr Ile Gly Ser Gly Lys Leu Ala Gly Lys Lys Ala
          50          55          60
Leu Ile Thr Gly Gly Asp Ser Gly Ile Gly Arg Ala Val Ala Ile Ala
65          70          75          80
Tyr Ala Arg Glu Gly Ala Asp Val Ala Ile Gly Tyr Leu Pro Glu Glu
          85          90          95
Glu Ser Asp Ala Ala Ser Val Ile Ala Leu Ile Gln Ala Glu Gly Arg
          100         105         110
Lys Ala Val Ala Ile Pro Gly Asp Ile Arg Val Glu Ser Phe Cys Asp
          115         120         125
Thr Leu Val Glu Lys Ala Val Ala Glu Leu Gly Gly Leu Asp Ile Leu
          130         135         140
Val Asn Asn Ala Gly Arg Gln Gln Tyr Cys Glu Ser Ile Asp Asp Leu
          145         150         155         160
Thr Thr Ala Asp Phe Asp Ala Thr Phe Lys Thr Asn Val Tyr Ala Pro
          165         170         175
Phe Trp Ile Thr Lys Ala Ala Leu Arg Leu His Pro Arg Glu Arg Ala
          180         185         190
Arg Ser Arg Ala
          195

```

<210> 7561

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7561

```

Gly Gly Ser Gln Pro Gly Trp Gly Ile Pro Ser Gly Gly Leu Gly Arg
1          5          10          15
Phe Ile Gln Lys Pro Pro Asn Cys Ser Glu Asn Val Leu Met Asp Gly

```

```
<210> 7562
<211> 358
<212> PRT
<213> Enterobacter cloacae
```

<400> 7562
 Ser Ala Ser Leu Leu Leu Leu Cys Met Lys Gly Glu Asn Met Lys Ile
 1 5 10 15
 Ile Cys Leu Glu His Tyr Leu Asp Ser Glu Leu Gly Arg Ala Cys
 20 25 30
 Met Pro Val Ala Leu Glu Gln Ala Pro Phe Leu Gly Asp Trp Gly Lys


```
<210> 7563
<211> 194
<212> PRT
<213> Enterobacter cloacae
```

Leu	Ile	Glu	Met	Lys	Asn	Ile	Leu	Ile	Val	Ser	Gly	His	Pro	Glu	Leu
1				5					10					15	
Thr	His	Ser	Val	Ala	Asn	Ala	Thr	Ile	Leu	Asp	Glu	Val	Ala	Thr	Ala
			20					25					30		
Leu	Pro	Asp	Ala	Glu	Ile	Arg	Arg	Leu	Asp	Trp	Leu	Tyr	Pro	Asp	Gly
		35					40					45			
Lys	Phe	Asn	Ile	Ala	Ala	Glu	Gln	Glu	Ser	Leu	Leu	Arg	Ala	Asp	Val
	50					55					60				
Ile	Val	Trp	Gln	Phe	Pro	Phe	Ser	Trp	Tyr	Gly	Leu	Pro	Gly	Leu	Met
65					70					75					80
Lys	Gln	Trp	Leu	Asp	Glu	Val	Phe	Val	His	Gly	Phe	Ala	His	Gly	Ser
				85					90					95	
Thr	Ala	Lys	Leu	Gly	Gly	Lys	Lys	Leu	Leu	Leu	Ser	Phe	Thr	Thr	Gly

100				105				110							
Ala	Pro	Gln	Ala	Leu	Tyr	Thr	Ala	Asp	Gly	Phe	Phe	Gly	His	Ala	Ile
		115					120					125			
Glu	Glu	Tyr	Leu	Ile	Pro	Phe	Glu	Thr	Thr	Ala	Lys	Leu	Cys	Asn	Leu
		130				135					140				
Glu	Leu	Leu	Glu	Pro	Val	Tyr	Thr	Cys	Gly	Ile	Ser	Tyr	Ala	Asp	Arg
145					150					155					160
Asp	Ala	Asp	Lys	Leu	Ala	Gln	Gln	Lys	Thr	Leu	Ala	Arg	Glu	His	Ala
			165						170					175	
Leu	Arg	Leu	Val	His	Leu	Leu	Asn	Ser	Val	Val	Asn	Asn	Pro	Glu	Gly
			180					185					190		
Glu															

<210> 7564

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7564

Arg	Phe	Thr	Val	Leu	Leu	Arg	Gln	Arg	Arg	Phe	Met	Met	Val	Leu	Leu
1				5					10					15	
Gln	Arg	Arg	Ala	Ala	Ala	Leu	Phe	Leu	Phe	Ala	Phe	Ile	Phe	Leu	Met
			20					25					30		
Pro	Ala	Ser	His	Ala	His	Ser	Arg	Glu	Lys	Thr	Asp	Ile	Lys	Thr	Leu
		35					40					45			
Val	Ile	Val	Ser	His	Pro	Tyr	Pro	Glu	Arg	Ser	Val	Leu	Thr	Lys	Gly
		50				55					60				
Leu	Gln	Glu	Ala	Ala	Glu	Ser	Leu	Glu	Gly	Val	Thr	Val	Arg	Asn	Leu
65					70					75					80
Glu	Thr	Leu	Tyr	Gly	Tyr	Asp	Thr	Arg	Arg	Ile	Asn	Gly	Asp	Ala	Glu
				85				90						95	
Arg	Lys	Met	Met	Arg	Glu	His	Arg	Arg	Val	Val	Phe	Ile	Phe	Pro	Thr
			100					105						110	
His	Trp	Phe	Asn	Ile	Thr	Pro	Met	Met	Lys	Ala	Trp	Leu	Asn	Glu	Thr
		115					120					125			
Trp	Gly	Ser	Val	Gly	Pro	Gly	Leu	Trp	Gln	Gly	Lys	Glu	Met	Phe	Ile
		130				135					140				
Val	Ser	Thr	Ala	Ala	Gly	Ser	Ser	Thr	Tyr	Gly	Thr	Asp	Gly	Arg	
145					150					155					160
Ile	Gly	Val	Ser	Leu	Ala	Asp	Val	Phe	Leu	Pro	Met	Lys	Ala	Ser	Ala
				165				170						175	
Leu	His	Ala	Gly	Met	Thr	Trp	Leu	Pro	Pro	Leu	Val	Phe	Glu	Ser	Ala
			180					185					190		
Ser	Ser	Asp	Arg	Leu	Pro	Ser	Tyr	Gln	His	Gln	Leu	Ile	Glu	Arg	Leu
		195					200					205			
Lys	Gln	Pro	Phe	Gln											
															210

<210> 7565

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 7565

Asn	Val	Leu	Asn	Ser	His	Phe	Ser	Lys	Arg	Ile	Ile	Val	Lys	Lys	Thr
1				5					10					15	
Leu	Met	Leu	Leu	Ile	Cys	Met	Leu	Ile	Ser	Ser	Pro	Val	Phe	Ala	Thr
			20					25					30		
Lys	Leu	Asp	Ala	Pro	Asp	Lys	Arg	Val	Met	Asn	Ile	Phe	Glu	Leu	Gly
		35					40					45			

```

Val Arg Pro Asp Arg Asp Lys Asp Phe Ala Asp Val Ala Arg Gln Thr
 50      55      60
Ile Ser Ala Ser Val Asp His Glu Ala Gly Thr Leu Ala Met Tyr Ala
 65      70      75      80
Leu His Arg Ser Asp Asn Pro Arg Gln Ala Phe Met Val Glu Leu Tyr
      85      90      95
Glu Asn Glu Asn Ala Tyr Arg Lys His Leu Asn Ala Glu Pro Tyr Lys
      100      105      110
Ala Phe Ala Asp Arg Ala Pro Asp Ile Ile Asp Gln Lys Asn Lys Ile
      115      120      125
Thr Leu Glu Pro Gln Phe Leu Gly Asp Lys His Ile Ile Pro Asp Glu
      130      135      140
Arg Thr Ile Asn Asn Leu Val Ile Val Glu Val Lys Pro Glu Phe Gln
      145      150      155      160
Thr Glu Phe Lys Asn Ile Val Leu Pro Glu Met Ala Glu Ser Leu Lys
      165      170      175
Val Glu Lys Gly Val Leu Ala Met Tyr Ala Ala Thr Asp Ser Gln Thr
      180      185      190
Pro Asn Arg Trp Tyr Phe Tyr Glu Ile Tyr Ala Ser Glu Glu Ala Tyr
      195      200      205
Gln Leu His Arg Gln Thr Pro His Phe Arg Asp Tyr Leu Arg Gln Thr
      210      215      220
Ala His Met Ser Ala Ser Lys Asn Ala Ile Pro Val Lys Pro Val Phe
      225      230      235      240
Leu Arg Asn Lys Ser Gly Ile Lys Gln Asp Pro His Arg
      245      250

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<210> 7566

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7566

```

Pro Val Arg Ile Asn Met Lys Ser Val Ile Ala Ala Ala Ala Met Ser
 1      5      10      15
Leu Val Ile Ser Asp Phe Ala Thr Ala Glu Glu Thr Arg Gly Lys Ala
      20      25      30
Met Met Lys Ile Glu Pro Ser Thr Ile Ser Glu Ala Asp Ile Arg Ser
      35      40      45
Val Ser Pro Ala Leu Ala Arg Phe Gly Arg Glu Ala Ile Thr Glu Asp
      50      55      60
Leu Trp Thr Arg Asp Ala Leu Ser Pro Arg Asp Arg Ser Met Val Thr
      65      70      75      80
Val Ala Met Leu Ile Ala Arg Asn Gln Pro Gly Asp Leu Lys His Tyr
      85      90      95
Met Asp Ile Ala Leu Asp Asn Gly Val Thr Pro Ala Glu Leu Ser Glu
      100      105      110
Ile Ile Thr His Leu Ala Phe Tyr Ser Gly Trp Pro Asn Ala Met Ser
      115      120      125
Ala Val Ser Val Thr Lys Ala Val Phe Glu Thr Arg Gly Val Thr Ala
      130      135      140
Asp Ala Leu Pro Asp Ala Ser Pro Asp Leu Leu Pro Leu Asn Gln Gln
      145      150      155      160
Ala Glu Lys Gln Arg Ser Glu Thr Val Glu Lys Asn Val Gly Pro Ile
      165      170      175
Ser Pro Gly Leu Val Lys Phe Thr Ala Asp Pro Leu Phe Leu Asp Leu
      180      185      190
Trp Gln Arg Pro Ala Leu Lys Pro Arg Asp Arg Ser Leu Ile Thr Val
      195      200      205
Ser Ala Leu Ile Ala Ser Gly Gln Ser Ala Gln Ile Gly Tyr His Leu
      210      215      220

```

Asn	Arg	Ala	Met	Asp	Asn	Gly	Leu	Ser	Val	Glu	Glu	Ala	Gly	Glu	Ile
225					230					235					240
Val	Thr	Gln	Ala	Ala	Phe	Tyr	Ala	Gly	Trp	Pro	Asn	Ala	Phe	Thr	Ala
				245					250					255	
Ala	Pro	Val	Val	Gly	Glu	Val	Leu	Asn	Asn	Arg	Ser	Ser	Ser	Lys	Arg
			260					265						270	

<210> 7567

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 7567

Gly	Val	Ser	Cys	Asn	Asp	Lys	Val	Gln	Met	Val	Arg	Leu	Pro	Pro	Cys
1				5					10					15	
Lys	Ser	His	Leu	Tyr	Ser	Phe	Val	Ile	His	Thr	Leu	Phe	Ser	Glu	Asp
			20					25					30		
Asn	Leu	Met	Thr	Leu	Phe	Ser	Ser	Gln	Pro	Gly	Asp	Glu	Gly	Leu	Pro
		35					40					45			
Gly	Pro	Ala	Arg	Ala	Arg	Val	Met	Ala	Ala	Ile	Met	Thr	Thr	Thr	Leu
	50					55					60				
Met	Gly	Val	Phe	Asp	Gly	Thr	Met	Ile	Asn	Ile	Ala	Leu	Pro	Ser	Met
65					70					75					80
Ala	Gln	Glu	Met	Gln	Val	Pro	Ala	Ser	Ile	Ala	Val	Trp	Phe	Ala	Asn
				85					90					95	
Gly	Tyr	Leu	Leu	Ala	Ala	Ala	Met	Ser	Leu	Ala	Ile	Phe	Ala	Ala	Leu
			100					105					110		
Ala	Ala	Arg	Leu	Gly	Tyr	Arg	Pro	Val	Phe	Leu	Ala	Gly	Leu	Thr	Thr
		115					120					125			
Phe	Thr	Leu	Thr	Ser	Leu	Gly	Cys	Ala	Leu	Ala	Lys	Thr	Pro	Glu	Val
	130					135					140				
Leu	Ile	Gly	Met	Arg	Val	Leu	Gln	Gly	Ile	Gly	Gly	Ala	Ala	Thr	Leu
145					150					155					160
Ser	Ile	Ala	Pro	Ala	Ile	Leu	Arg	Ser	Val	Phe	Pro	Gly	Arg	Leu	Leu
				165					170					175	
Gly	Arg	Ile	Leu	Gly	Leu	His	Ala	Leu	Leu	Ile	Ala	Ser	Ser	Ser	Ala
			180					185					190		
Ile	Gly	Pro	Val	Leu	Gly	Gly	Thr	Ile	Leu	His	Thr	Leu	Ser	Trp	Gln
		195					200					205			
Trp	Leu	Phe	Ala	Ile	Asn	Val	Val	Pro	Gly	Thr	Leu	Ala	Leu	Leu	Leu
	210					215					220				
Ala	Val	Lys	Ala	Leu	Pro	Arg	Asp	Ala	Val	Arg	Lys	Gln	Ala	Pro	Phe
225					230					235					240
Asp	Thr	Pro	Gly	Ala	Ile	Leu	Ser	Ala	Leu	Leu	Leu	Gly	Ser	Thr	Ile
				245					250					255	
Met	Ala	Ala	Asn	Ser	Leu	Gln	Glu	Ala	Thr	Tyr	His	Pro	Gly	Ser	Leu
			260					265					270		
Cys	Trp	Thr	Val	Leu	Ala	Ala	Leu	Ser	Gly	Met	Ala	Phe	Ile	Trp	Gln
		275					280					285			
Ile	Arg	Arg	Thr	Asp	Asn	Pro	Leu	Leu	Pro	Pro	Thr	Met	Phe	Lys	Asn
	290				295						300				
Glu	Arg	Phe	Thr	Leu	Ala	Ala	Phe	Thr	Ser	Met	Ile	Ala	Phe	Val	Ser
305					310					315					320
Gln	Gly	Ile	Thr	Phe	Ile	Ala	Leu	Pro	Phe	Leu	Phe	Gln	Ser	Glu	Tyr
				325					330					335	
Gly	Tyr	Ser	Pro	Val	Leu	Ser	Ala	Leu	Leu	Phe	Thr	Pro	Trp	Pro	Leu
			340				345						350		
Gly	Ile	Val	Leu	Ile	Ala	Pro	His	Ala	Gly	Arg	Trp	Ala	Asp	Thr	Ile
		355					360					365			

Ser Ala Pro Ala Ile Ser Thr Leu Gly Leu Val Ile Phe Val Val Gly
 370 375 380
 Leu Ile Leu Leu Ala Thr Leu Pro Asp Arg Pro Thr Met Trp Asp Ile
 385 390 395 400
 Cys Leu Arg Ser Leu Val Cys Gly Met Gly Phe Gly Cys Phe Gln Ser
 405 410 415
 Pro Asn Asn Arg Glu Met Leu Ser Asn Val Ile Arg Glu His Ala Ser
 420 425 430
 Tyr Ala Ser Gly Val Leu Ser Ile Met Arg Thr Phe Gly Gln Cys Leu
 435 440 445
 Gly Ala Ala Ala Val Ala Val Leu Leu Ala Ala Asp Glu Arg Ser Ile
 450 455 460
 His Val Ala Leu Trp Val Ala Ala Ala Ser Ala Val Ala Val Val
 465 470 475 480
 Val Ser Ala Ser Arg Leu Arg Lys Ile Thr His Pro Ala Glu Thr Gly
 485 490 495

<210> 7568
 <211> 183
 <212> PRT
 <213> Enterobacter cloacae

<400> 7568
 His Ala Arg Cys Pro Gly Arg Gly Arg Ser Cys His Arg Lys Thr Ala
 1 5 10 15
 Gly Lys Glu Thr Ala Val Gly Arg Val Thr Ala Pro Glu Pro Leu Ser
 20 25 30
 Ser Val His Gln Leu Ala Glu Phe Val Ser Gly Glu Ala Val Leu Asp
 35 40 45
 Glu Trp Leu Lys Gln Arg Gly Leu Lys Asn Gln Ala Leu Gly Ala Ala
 50 55 60
 Arg Thr Phe Val Ile Cys Lys Thr Gly Thr Lys Gln Val Ala Gly Phe
 65 70 75 80
 Tyr Ser Leu Ala Thr Gly Ser Val Asn His Thr Gln Ala Thr Gly Asn
 85 90 95
 Leu Arg Arg Asn Met Pro Asp Pro Ile Pro Val Ile Ile Leu Ala Arg
 100 105 110
 Leu Ala Val Asp Val Ser Leu Arg Gly Asn Gly Leu Gly Ala Asp Leu
 115 120 125
 Leu His Asp Ala Val Leu Arg Cys Tyr Arg Val Ala Glu Asn Ile Gly
 130 135 140
 Val Arg Ala Ile Met Val His Ala Leu Thr Glu Glu Ala Lys Ala Phe
 145 150 155 160
 Tyr Ile His His Gly Phe Lys Ala Ser Gln Thr Gln Glu Arg Thr Leu
 165 170 175
 Phe Leu Arg Leu Pro Gln
 180

<210> 7569
 <211> 828
 <212> PRT
 <213> Enterobacter cloacae

<400> 7569
 Trp Arg Ser Ser Ala Met Ile Pro Ser Ser Thr Tyr Arg Ile Gln Phe
 1 5 10 15
 Arg Asn Gly Met Thr Phe Asp Arg Val Ala Asp Leu Ile Pro Tyr Met
 20 25 30
 Lys Asp Leu Gly Ile Ser His Leu Tyr Ala Ser Pro Val Phe Thr Ala

		35				40				45				
Thr	Thr	Asn	Ser	Thr	His	Gly	Tyr	Asp	Val	Thr	Asp	Pro	Asn	Glu Ile
	50					55				60				
Asp	Pro	Ala	Ile	Gly	Gly	Arg	Glu	Gly	Phe	Asp	Arg	Met	Ala	Ala Ala
65				70					75					80
Leu	Lys	Gln	Ala	Gly	Met	Gly	Leu	Ile	Leu	Asp	Ile	Val	Pro	Asn His
				85					90					95
Met	Ser	Thr	Ser	Leu	Glu	Asn	Arg	Trp	Trp	Arg	Asp	Val	Ile	Glu His
			100					105					110	
Gly	Gly	Gln	Ser	Arg	Tyr	Ala	Ala	Tyr	Phe	Asp	Ile	Asp	Trp	Ser Arg
		115					120					125		
Pro	Leu	Thr	Leu	Pro	Phe	Leu	Gly	Asp	Thr	Phe	Glu	Ala	Glu	Leu Glu
	130					135					140			
Arg	Gly	Thr	Ile	Thr	Leu	Lys	Arg	Asp	Ser	Val	Thr	Asn	Ser	Ala Ala
145					150					155				160
Leu	Val	Tyr	Tyr	Asp	Thr	Ala	Tyr	Pro	Leu	Asn	Pro	Gly	Thr	Tyr Ala
				165					170					175
Glu	Gly	Lys	Ser	Ile	Ala	Glu	Ile	His	Glu	Ala	Gln	Ser	Trp	Arg Leu
			180					185					190	
Met	Ser	Trp	Arg	Glu	Ala	Pro	Lys	Gln	Leu	Ser	Trp	Arg	Arg	Phe Phe
		195					200					205		
Glu	Ile	Thr	Gly	Leu	Val	Gly	Val	Arg	Val	Glu	Asp	Glu	Ala	Val Phe
	210					215					220			
Ala	Asp	Thr	His	His	Leu	Ile	Leu	Glu	Leu	Val	His	Ala	Gly	Val Val
225					230					235				240
Asp	Gly	Leu	Arg	Ile	Asp	His	Val	Asp	Gly	Leu	Ala	Asp	Pro	Leu Gly
				245					250					255
Tyr	Leu	Gln	Arg	Leu	Arg	Ala	Ala	Thr	Gly	Pro	Asp	Cys	Tyr	Ile Thr
		260						265					270	
Val	Glu	Lys	Ile	Leu	Ala	Lys	Gly	Gln	Leu	Pro	Pro	Glu	Trp	Pro
		275					280					285		
Ile	Ser	Gly	Thr	Thr	Gly	Tyr	Glu	Phe	Ile	Ala	Ser	Leu	Ala	Glu Val
	290					295					300			
Leu	Val	Asp	Asp	Thr	Asn	Leu	Ser	Arg	Leu	Glu	Met	Leu	Tyr	Asp Glu
305					310					315				320
Thr	Leu	Gly	Thr	Thr	Val	Asp	Arg	Gln	Ala	Glu	Leu	Arg	Asn	Ala Lys
				325					330					335
Gly	Leu	Met	Thr	Asp	Arg	Asn	Phe	Glu	Gly	Glu	Phe	Thr	Thr	Leu Leu
		340						345					350	
Lys	Ile	Ala	Ser	Glu	Leu	Ala	Gly	His	Asn	Gly	Ala	Glu	Val	Glu His
		355					360					365		
Asp	Asp	Ile	Arg	His	Ala	Leu	Arg	Glu	Leu	Leu	Ile	Ala	Phe	Pro Val
	370					375					380			
Tyr	Arg	Thr	Tyr	Gly	Thr	Ala	Glu	Gly	Leu	Thr	Pro	Pro	Asp	Val Ala
385					390					395				400
Leu	Leu	Ser	Arg	Val	Val	Ala	Ser	Val	Asn	Ala	Ser	Glu	Pro	Ala Leu
				405					410					415
Ser	Leu	Ile	Val	Arg	Ile	Leu	Thr	Gly	Asp	Leu	Pro	Glu	His	Asp His
			420					425					430	
Ala	Leu	Ala	Ser	Leu	Phe	Arg	Thr	Arg	Phe	Gln	Gln	Leu	Thr	Gly Pro
	435						440					445		
Leu	Met	Ala	Lys	Ser	Val	Glu	Asp	Thr	Leu	Phe	Phe	Arg	His	Asn Leu
	450					455					460			
Glu	Leu	Ala	Leu	Asn	Glu	Val	Gly	Ala	Asp	Pro	Thr	Pro	Arg	Ala Phe
465					470					475				480
Ser	Leu	Ser	Arg	Phe	His	Gln	Glu	Met	Arg	Ile	Arg	Leu	Ala	Arg Gln
				485					490					495
Pro	Asp	Ala	Leu	Gly	Thr	Ser	Thr	His	Asp	Thr	Lys	Arg	Gly	Glu
		500					505					510		
Asp	Ala	Arg	Ala	Arg	Leu	Tyr	Thr	Leu	Thr	Glu	Ala	Pro	Asp	Leu Trp
		515					520					525		

Gly	Glu	Asn	Leu	Ala	Arg	Trp	Arg	Gln	Met	Asn	Gln	Thr	Gln	Val	Arg
	530					535					540				
Phe	Leu	Asn	Asp	Gly	Thr	Ala	Pro	Asn	Ala	Ala	Asp	Thr	Trp	Met	Ile
545					550					555					560
Phe	Gln	Ala	Leu	Ala	Gly	Val	Trp	Pro	Ala	Thr	Leu	Ser	Pro	Glu	Asp
				565					570						575
Arg	Asp	Gly	Leu	Lys	Ser	Leu	Glu	Glu	Arg	Phe	Leu	Gly	Phe	Ile	Glu
			580					585					590		
Lys	Ala	Leu	Arg	Glu	Ala	Lys	Gln	Arg	Thr	Asp	Trp	Ile	Asp	Ser	Asn
		595					600					605			
Glu	Gly	Tyr	Glu	Ser	Val	Val	Leu	Asp	Tyr	Val	Arg	His	Leu	Leu	Ser
	610					615					620				
Pro	Asp	Asn	Thr	Leu	Phe	Leu	Arg	Asp	Phe	Ser	Ala	Ala	Leu	Gln	Pro
625					630					635					640
Phe	Ile	Arg	Ala	Gly	Leu	Met	Asn	Ser	Leu	Ser	Gln	Thr	Val	Ile	Lys
			645					650						655	
Leu	Thr	Ala	Pro	Gly	Val	Pro	Asp	Ile	Tyr	Gln	Gly	Ser	Glu	Gly	Leu
			660					665					670		
Asn	Phe	Ser	Leu	Val	Asp	Pro	Asp	Asn	Arg	Arg	Glu	Pro	Asp	Phe	Ala
		675					680					685			
Ala	Leu	Ala	Glu	Asn	Leu	Ser	Val	Ala	Asp	Gly	Thr	Val	Phe	Asn	Asp
		690					695				700				
Ala	Gln	Arg	Trp	Arg	Asp	Gly	Ser	Val	Lys	Gln	Tyr	Val	Thr	Ala	Thr
705					710					715					720
Leu	Leu	Arg	Leu	Arg	Pro	His	Tyr	Pro	Ala	Leu	Phe	Arg	Tyr	Gly	Asp
				725					730					735	
Trp	Leu	Pro	Leu	Lys	Val	Thr	Gly	Glu	Arg	Glu	Glu	Asn	Leu	Ile	Val
			740					745					750		
Tyr	Ala	Arg	Ile	Lys	Asp	Asp	Glu	Ala	Leu	Ile	Val	Ala	Val	Pro	Arg
		755					760					765			
Leu	Val	Phe	Asp	Val	Thr	Asp	Asn	Ala	Leu	Leu	Trp	Ala	Asn	Thr	Ile
	770					775					780				
Val	Ala	Ile	Pro	Gln	Glu	Leu	Ala	Gly	Lys	His	Tyr	Arg	Asp	Leu	Phe
785					790					795					800
Thr	Gly	Glu	Arg	Arg	Leu	Leu	Pro	Asp	Thr	Leu	Asp	Leu	Thr	Ser	Glu
				805					810					815	
Lys	Gly	Cys	Leu	Leu	Val	Leu	Leu	Thr	Cys	Asp					
			820					825							

<210> 7570

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 7570

Ser	Arg	Arg	Thr	Lys	Met	Pro	Lys	Asp	Thr	Thr	Phe	Glu	Ile	Arg	Ala
1				5					10					15	
Gly	His	Gly	Gln	Gln	Leu	Gly	Ala	Asn	Tyr	Asp	Gly	Lys	Gly	Val	Asn
			20					25					30		
Phe	Ala	Leu	Phe	Ser	Ala	His	Ala	Glu	Arg	Val	Glu	Leu	Cys	Leu	Phe
		35					40					45			
Asp	Pro	Ser	Gly	Lys	Thr	Glu	Ile	Ala	Arg	Leu	Glu	Leu	Pro	Glu	Tyr
	50					55					60				
Thr	His	Glu	Val	Trp	His	Gly	Tyr	Val	Pro	Asp	Leu	Lys	Pro	Gly	Ala
65					70					75					80
Leu	Tyr	Gly	Tyr	Arg	Val	Tyr	Gly	Pro	Tyr	Asp	Pro	Glu	Asn	Gly	His
				85					90					95	
Arg	Phe	Asn	Pro	Asn	Lys	Leu	Leu	Ile	Asp	Pro	Tyr	Ala	Arg	Glu	Leu
			100					105					110		
Val	Gly	Asp	Ile	Glu	Trp	Asn	Asp	Ala	His	Phe	Gly	Tyr	Glu	Leu	Gly
		115					120					125			

His	Asp	Glu	Leu	Asp	Leu	Ser	Phe	Asp	Thr	Arg	Asp	Ser	Ala	Pro	Phe
130						135					140				
Thr	Pro	Lys	Cys	Lys	Val	Ile	Asp	Pro	Asn	Ala	Val	Asp	Trp	Gln	Asp
145					150					155					160
Ser	Arg	Arg	Pro	Asp	Ile	Pro	Trp	Pro	His	Thr	Val	Val	Tyr	Glu	Ser
				165					170					175	
His	Val	Lys	Gly	Phe	Thr	Gln	Leu	Asn	Pro	Ala	Ile	Gln	Pro	Glu	Leu
			180					185					190		
Arg	Gly	Thr	Phe	Glu	Gly	Met	Gly	His	Lys	Ala	Ser	Val	Glu	Tyr	Ile
		195					200					205			
Lys	Ser	Leu	Gly	Ile	Thr	Ser	Val	Glu	Leu	Leu	Pro	Val	His	Trp	Phe
	210					215					220				
Pro	Asp	Asp	Gln	His	Leu	Leu	Asp	Arg	Gly	Leu	Lys	Asn	Phe	Trp	Gly
225					230					235					240
Tyr	Asn	Ser	Leu	Gly	Phe	Phe	Ala	Pro	Ala	Ser	Arg	Tyr	Tyr	Gly	Pro
			245						250					255	
Ala	Gly	Ile	Gln	Gly	Phe	Arg	Asp	Met	Val	Arg	Ala	Tyr	His	Asp	Ala
			260					265						270	
Gly	Ile	Glu	Val	Ile	Leu	Asp	Val	Val	Tyr	Asn	His	Thr	Ala	Glu	Gly
		275					280					285			
Asn	Glu	Leu	Gly	Pro	Thr	Leu	Ser	Phe	Lys	Gly	Ile	Asp	Asn	Phe	Cys
	290					295					300				
Tyr	Tyr	Arg	Thr	Met	Pro	Asp	Gln	His	Arg	Tyr	Tyr	Ile	Asn	Asp	Thr
305					310					315					320
Gly	Thr	Gly	Asn	Thr	Val	Asn	Thr	Ser	His	Pro	Arg	Val	Leu	Gln	Met
			325						330					335	
Val	Met	Asp	Ser	Leu	Arg	Tyr	Trp	Ala	Glu	Ser	Met	Gln	Ile	Asp	Gly
			340					345					350		
Phe	Arg	Phe	Asp	Leu	Gly	Thr	Ile	Leu	Gly	Arg	Glu	Pro	Glu	Gly	Phe
		355					360					365			
Asp	Pro	Arg	Gly	Gly	Phe	Phe	Asp	Ala	Val	Thr	Gln	Asp	Pro	Val	Leu
	370					375					380				
Ser	Lys	Leu	Lys	Leu	Ile	Gly	Glu	Pro	Trp	Asp	Ile	Gly	Pro	Gly	Gly
385					390					395					400
Tyr	Gln	Val	Gly	Gly	Phe	Pro	Pro	Gly	Trp	Gly	Glu	Trp	Asn	Asp	Lys
			405						410					415	
Tyr	Arg	Asp	Thr	Val	Arg	Glu	Tyr	Trp	Lys	Gly	Asp	Asn	Val	Ser	Asn
			420					425					430		
Asp	Phe	Ala	Ala	Arg	Leu	Leu	Gly	Ser	Gly	Asp	Leu	Tyr	Asp	Leu	Arg
		435					440					445			
Gly	Arg	Arg	Pro	Trp	Ala	Ser	Val	Asn	Phe	Ile	Thr	Ala	His	Asp	Gly
		450				455					460				
Phe	Thr	Leu	Asn	Asp	Leu	Val	Ser	Tyr	Asn	Glu	Lys	His	Asn	Ala	Asp
465					470					475					480
Asn	Gly	Glu	Asp	Asn	Asn	Asp	Gly	His	Asn	Asp	Asn	Arg	Ser	Tyr	Asn
			485						490					495	
Tyr	Gly	Glu	Glu	Gly	Pro	Thr	Glu	Asn	Pro	Asp	Ile	Ile	Ala	Thr	Arg
			500					505					510		
Glu	Arg	Gln	Lys	Arg	Asn	Phe	Leu	Thr	Thr	Leu	Phe	Phe	Ser	His	Gly
		515					520					525			
Thr	Pro	Met	Leu	Leu	Ala	Gly	Asp	Glu	Phe	Gly	Arg	Thr	Gln	Lys	Gly
		530				535					540				
Asn	Asn	Asn	Gly	Tyr	Cys	Gln	Asp	Ser	Glu	Ile	Ser	Trp	Val	Asn	Trp
545					550					555					560
Glu	Gly	Leu	Thr	Glu	Asn	Asp	Glu	Lys	Leu	Arg	Asp	Phe	Thr	Arg	Arg
			565						570					575	
Leu	Ile	Ala	Leu	Arg	Ala	Thr	Gln	Pro	Leu	Leu	Arg	Arg	Glu	Asn	Trp
			580					585					590		
Arg	Asp	Gly	Leu	Glu	Ile	Arg	Trp	Phe	Asn	Ala	Gly	Gly	Gly	Pro	Gln
		595					600					605			
Gln	Ser	Glu	Gln	Trp	Asp	Glu	Gly	Ser	Thr	Leu	Gly	Leu	Ala	Ile	Ser

610		615		620
Arg Pro Asp Leu Glu Gln	Glu Glu Gly Val Trp	Gln Asp Val Leu Met		
625		630		640
Leu Phe Asn Pro Phe	Glu Gly Thr Val Pro	Phe Gln Ile Pro Gln Phe		
		645		655
Gly Glu Gly Gly Trp Val	Leu Glu Leu Ser Thr	Ser Glu Asp Ala Thr		
		660		670
Thr Gly Glu Ile Ile Thr	Glu Ser Val Asp Tyr	Glu Leu Ala Gly Arg		
		675		685
Ser Ile Thr Leu Phe Arg	Arg Pro			
690		695		

<210> 7571

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7571

Asn Ala Leu Ser Glu Cys Thr Gly Met Ser Ala Met Thr Asp Pro Asp	
1	5 10 15
Phe Asn Leu Leu Ile Ala Leu Asp Ile Leu Leu Ser Glu Ala Ser Val	
	20 25 30
Ala Gly Ala Ala Arg Arg Leu Asn Leu Ser Thr Ser Ala Met Ser Arg	
	35 40 45
Thr Leu Ser Arg Leu Arg Asp Val Thr Gly Asp Pro Ile Leu Val Arg	
	50 55 60
Ala Gly Arg Asn Met Val Leu Thr Pro Trp Ala Glu Ala Thr Arg Asp	
65	70 75 80
Arg Ala Arg Arg Ala Val His Glu Thr Arg Ala Val Leu Gln Pro Ser	
	85 90 95
Thr Glu Thr Phe Ser Ala Arg Ser Leu Ala Arg Leu Phe Thr Ile Arg	
	100 105 110
Ala Asn Asp Gly Phe Val Val Ala Phe Gly Pro Ala Leu Ile Ala Ala	
	115 120 125
Val Ala Asp Ala Ala Pro Asp Val Cys Ile Arg Phe Ala Pro Lys Pro	
	130 135 140
Glu Lys Thr Ser Arg Tyr Leu Arg Glu Gly Leu Val Asp Leu Glu Ile	
145	150 155 160
Gly Val Gln Ser Asn Met Gly Pro Glu Ile Arg Leu Gln Arg Leu Phe	
	165 170 175
Glu Asp Arg Phe Val Gly Val Val Arg Lys Gly His Pro Leu Ala Asn	
	180 185 190
Gln Ala Glu Ile Gly Val Lys Asp Tyr Val Ala Trp Gly His Val Val	
	195 200 205
Ala Ser Pro Glu Gly Ala Leu His Gly Ser Val Asp Asp Ala Leu Ala	
	210 215 220
Glu Leu Gly Thr Lys Arg Lys Ile Ala Ser Val Val Pro Gly Phe Pro	
225	230 235 240
Thr Ala Leu Ser Val Ala Leu Ala Ser Asp Leu Val Ala Met Ile Pro	
	245 250 255
Ala Leu Tyr Leu Leu Asn Gln Gln Ile Thr Glu Gln Leu His Val Phe	
	260 265 270
Glu Leu Pro Phe Lys Ser Arg Arg Ile Thr Val Ser Gln Met Trp His	
	275 280 285
Pro Arg Met Glu Arg Asp Pro Gly His Arg Trp Leu Arg Glu Gln Ile	
	290 295 300
Leu Ala Ile Cys Gly Val Glu Arg Ser Asp Met Ile Lys Ser Ala Val	
305	310 315 320

<210> 7572
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 7572
 Ser Asn Cys Tyr Thr Arg Gly Ile Pro Met Lys Ser Asp Val Gln Leu
 1 5 10 15
 Asn Leu Arg Ala Lys Glu Ser Gln Arg Ala Leu Ile Asp Ala Ala Ala
 20 25 30
 Glu Ile Leu His Lys Ser Arg Thr Asp Phe Ile Leu Glu Met Ala Cys
 35 40 45
 Gln Ala Ala Glu Asn Val Ile Leu Asp Arg Arg Val Phe Asn Phe Asn
 50 55 60
 Asp Glu Gln Tyr Ala Glu Phe Ile Asp Met Leu Asp Ala Pro Val Ala
 65 70 75 80
 Asp Asp Pro Ala Ile Glu Lys Leu Leu Ala Arg Lys Pro Gln Trp Asp
 85 90 95
 Val

<210> 7573
 <211> 596
 <212> PRT
 <213> Enterobacter cloacae

<400> 7573
 Met Glu Phe Arg Thr Cys Arg Arg His Trp Gly Ala Glu Phe Ile Ser
 1 5 10 15
 Asp Asp Val Val Arg Phe Arg Val Trp Ala Glu Gly Gln Lys Asp Leu
 20 25 30
 Thr Leu Arg Leu Thr Asp Thr Asp Ile Pro Met Ala Ala Val Gly Asp
 35 40 45
 Gly Trp Phe Gln Ile Asp Val Pro Gly Val Arg His Gly Thr Thr Tyr
 50 55 60
 Gln Phe Val Leu Gln Asp Gly Met Ala Val Pro Asp Pro Ala Ser Arg
 65 70 75 80
 Ala Gln Gln Ala Asp Val Asn Gly Pro Ser Val Val Ile Asp Pro Arg
 85 90 95
 Arg Ser Leu Pro Ala Gln Arg Glu Trp Gln Gly Arg Pro Trp Glu Glu
 100 105 110
 Thr Val Ile Tyr Glu Leu His Ile Gly Thr Phe Thr Gly Glu Gly Thr
 115 120 125
 Phe Arg Ser Ala Ile Asp Lys Leu Pro Tyr Leu Ala Glu Leu Gly Ile
 130 135 140
 Thr Gln Leu Glu Val Met Pro Val Ser Gln Phe Gly Gly Ala Arg Gly
 145 150 155 160
 Trp Gly Tyr Asp Gly Val Leu Leu Tyr Ala Pro His Ser Ala Tyr Gly
 165 170 175
 Thr Pro Asp Asp Phe His Ala Phe Ile Asp Ala Ala His Ala Leu Gly
 180 185 190
 Leu Ser Val Val Leu Asp Ile Val Leu Asn His Phe Gly Pro Glu Gly
 195 200 205
 Asn Tyr Leu Pro Leu Leu Ser Pro Ala Phe Phe His Gln Asp Arg Met
 210 215 220
 Thr Pro Trp Gly Asn Gly Ile Ala Tyr Glu Val Glu Ala Val Arg Gln
 225 230 235 240
 Tyr Ile Ala Glu Ala Pro Leu Phe Trp Leu Ser Glu Tyr His Leu Asp
 245 250 255
 Gly Leu Arg Phe Asp Ala Ile Asp Gln Ile His Asp Asp Ala Glu Thr
 260 265 270

His Ile Leu Pro Glu Ile Ala Gln Arg Ile Arg Asp Ala Phe Pro Asp
 275 280 285
 Arg His Ile His Leu Thr Thr Glu Asp Ser Arg Asn Val Ile Phe Leu
 290 295 300
 His Pro Arg Asp Glu His Gly Gln Thr Pro Leu Phe Thr Ala Glu Trp
 305 310 315 320
 Asn Asp Asp Phe His Asn Ala Ala His Val Phe Ala Thr Gly Glu Ser
 325 330 335
 His Ala Tyr Tyr Gln Asp Phe Ala Phe Glu Pro Glu Lys Lys Leu Ala
 340 345 350
 Arg Ala Leu Ala Glu Gly Phe Val Tyr Gln Gly Glu Ile Ser Leu Gln
 355 360 365
 Thr Gly Lys Ser Arg Gly Val Glu Cys Arg Glu Gln Pro Pro Gln Phe
 370 375 380
 Phe Val Asp Phe Ile Gln Asn His Asp Gln Val Gly Asn Arg Ala Gln
 385 390 395 400
 Gly Glu Arg Leu Ile Ser Leu Ala Gly Ala Asp Lys Thr Arg Val Leu
 405 410 415
 Phe Ala Ala Leu Leu Leu Ser Pro His Ile Pro Leu Leu Phe Met Gly
 420 425 430
 Glu Glu Tyr Gly Glu Thr His Pro Phe Leu Phe Phe Thr Asp Phe His
 435 440 445
 Gly Asp Leu Ala Lys Ala Val Arg Glu Gly Arg Ala Lys Glu Phe Thr
 450 455 460
 Gly His Ala Gly His Asp Glu Thr Val Pro Asp Pro Asn Asp Leu Asn
 465 470 475 480
 Thr Phe Met Arg Ser Lys Leu Asp Trp Asn Lys Ala Asp Thr Glu Glu
 485 490 495
 Gly Arg Ala Trp Leu His Val Thr Arg Glu Leu Ile Val Leu Arg Gln
 500 505 510
 Arg Phe Ile Val Pro Leu Leu Lys Gln Arg Gly Thr Val Glu Gly Asn
 515 520 525
 Val Leu Gln Thr Ala Leu Gly Met Val Ala Val Ser Trp Arg Phe Pro
 530 535 540
 Ser Gly Thr Leu Ser Leu Ala Leu Asn Ile Gly Lys Lys Pro Leu Ala
 545 550 555 560
 Leu Pro Asp Leu Pro Gly Lys Thr Ile Phe Ser Trp Pro Glu Ala Val
 565 570 575
 Glu Asn Leu Pro Pro Asn Ser Ile Val Val Arg Phe Ala Asp Gly Glu
 580 585 590
 Ala Ala Leu
 595

<210> 7574

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 7574

Cys Phe Ile Ser Ala Asp Pro Ala Ser Ser Arg Gly Glu Asp Leu Val
 1 5 10 15
 Gly Lys Lys Val Gly Met Thr Arg Ile Phe Thr Glu Asp Gly Val Ser
 20 25 30
 Ile Pro Val Thr Val Ile Glu Val Glu Ala Asn Arg Val Thr Gln Val
 35 40 45
 Lys Asp Leu Ala Asn Asp Gly Tyr Arg Ala Ile Gln Val Thr Thr Gly
 50 55 60
 Ala Lys Lys Ala Asn Arg Val Thr Lys Pro Glu Ala Gly His Phe Ala
 65 70 75 80
 Lys Ala Gly Val Glu Ala Gly Arg Gly Leu Trp Glu Phe Arg Leu Ala
 85 90 95

Glu	Gly	Glu	Glu	Phe	Thr	Val	Gly	Gln	Asp	Ile	Ser	Val	Glu	Leu	Phe
			100					105					110		
Ala	Asp	Val	Lys	Lys	Val	Asp	Val	Thr	Gly	Thr	Ser	Lys	Gly	Lys	Gly
		115					120					125			
Phe	Ala	Gly	Thr	Val	Lys	Arg	Trp	Asn	Phe	Arg	Thr	Gln	Asp	Ala	Thr
	130					135					140				
His	Gly	Asn	Ser	Leu	Ser	His	Arg	Val	Pro	Gly	Ser	Ile	Gly	Gln	Asn
145					150					155					160
Gln	Thr	Pro	Gly	Lys	Val	Phe	Lys	Gly	Lys	Lys	Met	Ala	Gly	Gln	Leu
				165				170						175	
Gly	Asn	Glu	Arg	Val	Thr	Val	Gln	Ser	Leu	Asp	Val	Val	Arg	Val	Asp
			180					185					190		
Ala	Glu	Arg	Asn	Leu	Leu	Leu	Val	Lys	Gly	Ala	Val	Pro	Gly	Ala	Thr
		195					200					205			
Gly	Ser	Asp	Leu	Ile	Val	Lys	Pro	Ala	Val	Lys	Ala				
	210					215					220				

<210> 7575

<211> 123

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<400> 7575

Arg	Arg	Lys	Gly	Ile	Ala	Met	Glu	Leu	Val	Leu	Lys	Asp	Ala	Gln	Ser
1				5					10					15	
Ala	Leu	Thr	Val	Ser	Glu	Thr	Thr	Phe	Gly	Arg	Asp	Phe	Asn	Glu	Ala
			20					25					30		
Leu	Val	His	Gln	Val	Val	Val	Ala	Tyr	Ala	Ala	Gly	Ala	Arg	Gln	Gly
		35					40					45			
Thr	Arg	Ala	Gln	Lys	Thr	Arg	Ala	Glu	Val	Thr	Gly	Ser	Gly	Lys	Lys
	50					55					60				
Pro	Trp	Arg	Gln	Lys	Gly	Thr	Gly	Arg	Ala	Arg	Ser	Gly	Ser	Ile	Lys
65					70					75					80
Asn	Pro	Ile	Trp	Arg	Ser	Gly	Gly	Val	Asp	Phe	Ala	Ala	Arg	Pro	Gln
				85					90					95	
Glu	Thr	Gln	Ser	Xaa	Val	Asn	Lys	Lys	Met	Leu	Arg	Gly	Ala	Leu	Lys
			100					105					110		
Ser	Ile	Leu	Val	Gln	Leu	Gly	Thr	Ser	Gly	Ser					
		115					120								

<210> 7576

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7576

Leu	Gln	His	Asp	Gly	Ser	Leu	Arg	Ala	Ala	Ser	Met	Phe	Lys	Gln	Tyr
1				5					10					15	
Leu	Gln	Val	Thr	Lys	Pro	Gly	Ile	Ile	Phe	Gly	Asn	Leu	Ile	Ser	Val
			20					25					30		
Ile	Gly	Gly	Phe	Leu	Leu	Ala	Ser	Lys	Gly	Ser	Ile	Asp	Tyr	Thr	Leu
		35					40					45			
Phe	Ile	Tyr	Thr	Leu	Val	Gly	Val	Ser	Leu	Val	Val	Ala	Ser	Gly	Cys
	50					55					60				
Val	Phe	Asn	Asn	Tyr	Ile	Asp	Met	Asp	Ile	Asp	Lys	Lys	Met	Glu	Arg
65					70					75					80
Thr	Lys	Asn	Arg	Val	Leu	Val	Lys	Gly	Leu	Ile	Ala	Pro	Ser	Val	Ser

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<210> 7577
<211> 458
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Glu	Val	Val	Met 5	Asn	Asp	Tyr	Lys	Met 10	Thr	Pro	Gly	Glu	Leu 15	Arg
Ala	Thr	Trp	Gly 20	Leu	Gly	Thr	Val	Phe 25	Ser	Leu	Arg	Met	Leu 30	Gly	Met
Phe	Met	Val 35	Leu	Pro	Val	Leu	Thr 40	Thr	Tyr	Gly	Met	Ala 45	Leu	Gln	Gly
Ala	Ser 50	Glu	Ala	Leu	Ile	Gly 55	Leu	Ala	Ile	Gly	Ile 60	Tyr	Gly	Leu	Ala
Gln 65	Ala	Ile	Phe	Gln	Ile 70	Pro	Phe	Gly	Leu	Leu 75	Ser	Asp	Arg	Val	Gly
Arg	Lys	Pro	Leu	Ile 85	Val	Gly	Gly	Leu	Leu 90	Val	Phe	Val	Leu 95	Gly	Ser
Ile	Ile	Ala	Ala 100	Leu	Ser	His	Ser	Ile 105	Trp	Gly	Ile	Ile	Leu 110	Gly	Arg
Ala	Leu	Gln 115	Gly	Ser	Gly	Ala	Ile	Ala 120	Ala	Ala	Val	Met	Ala 125	Leu	Leu
Ser	Asp 130	Leu	Thr	Arg	Glu	Gln 135	Asn	Arg	Thr	Lys	Ala 140	Met	Ala	Phe	Ile
Gly 145	Val	Ser	Phe	Gly	Val 150	Thr	Phe	Ala	Ile	Ala 155	Met	Val	Leu	Gly	Pro
Ile	Ile	Thr	His	Ser 165	Leu	Gly	Leu	His	Ala 170	Leu	Phe	Trp	Met	Ile 175	Ala
Met	Leu	Ala	Thr 180	Ile	Gly	Ile	Ala	Leu 185	Thr	Leu	Trp	Val	Val 190	Pro	Asp
Ser	Lys	Asn	His	Val	Leu	Asn	Arg	Glu	Ser	Gly	Met	Val	Lys	Gly	Cys

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<210> 7578
<211> 205
<212> PRT
<213> Enterobacter cloacae
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Asp 1	Lys	Gly	Ser	Met 5	Pro	Asp	Gly	Thr	Ile 10	Leu	Ser	Thr	Ile	Ala 15	Ala
Ile	Cys	Asp	Phe 20	Lys	Glu	Leu	Asn	Ala 25	Met	Thr	Arg	Arg	Tyr 30	Leu	Lys
Ile	Val	Leu 35	Val	Gly	Ser	Leu	Phe 40	Thr	Leu	Ser	Ala	Cys 45	Ala	Gln	Gln
Ser	Glu 50	Val	Arg	Glu	Met	Lys 55	Gln	Ser	Val	Asn	Thr 60	Leu	Asn	Val	Ala
Met 65	Asp	Lys	Leu	Asn 70	Lys	Glu	Thr	Val	Lys	Ile 75	Thr	Gln	Gln	Asn	Ala 80
Leu	Asn	Ala	Lys	Ser 85	Ser	Asn	Gly	Val	His 90	Leu	Leu	Pro	Gly	Ala 95	Asn
Thr	Pro	Ala	Arg 100	Leu	Asn	Ser	Gln	Ile 105	Gly	Thr	Leu	Lys	Met 110	Ser	Leu
Val	Asn	Val 115	Ala	Ala	Asn	Ala	Asp 120	Gly	Thr	Arg	Ala	Thr 125	Leu	Arg	Ile
Gln	Gly 130	Glu	Ser	Asn	Asp	Pro 135	Leu	Pro	Ala	Phe	Ser 140	Gly	Thr	Val	Glu
Trp 145	Gly	Gln	Ile	Gln 150	Gly	Thr	Thr	Glu	Ser	Tyr 155	Gln	Glu	Val	Asn	Val 160
Lys	Asn	Gln	Leu	Phe	Thr	Ala	Pro	Ala	Ser	Thr	Leu	Ala	Pro	Ser	Asp

				165				170				175			
Val	Asp	Ile	Pro	Leu	Gln	Leu	Ser	Gly	Leu	Thr	Pro	Glu	Gln	Leu	Gly
			180					185					190		
Phe	Ile	Arg	Ile	His	Asp	Ile	Gln	Pro	Ala	Ala	Gln				
		195					200					205			

<210> 7579

<211> 677

<212> PRT

<213> Enterobacter cloacae

<400> 7579

Ala	Thr	Arg	Lys	Pro	Leu	Thr	Lys	Gly	Pro	Arg	Lys	Lys	Met	Phe	Gly
1				5					10					15	
Lys	Leu	Thr	Leu	Asp	Ala	Val	Pro	Tyr	His	Glu	Pro	Ile	Ile	Met	Val
			20					25					30		
Thr	Val	Ala	Ala	Ile	Ile	Ile	Gly	Gly	Ala	Ala	Leu	Val	Gly	Leu	Ile
		35					40					45			
Thr	Tyr	Phe	Gly	Lys	Trp	Ser	Tyr	Leu	Trp	Asn	Glu	Trp	Leu	Thr	Ser
	50					55				60					
Val	Asp	His	Lys	Lys	Leu	Gly	Ile	Met	Tyr	Cys	Ile	Val	Gly	Ile	Val
65					70					75					80
Met	Leu	Ile	Arg	Gly	Phe	Ala	Asp	Ala	Ile	Met	Met	Arg	Ser	Gln	Gln
				85					90					95	
Ala	Leu	Ala	Ser	Ala	Gly	Glu	Ala	Gly	Phe	Leu	Pro	Pro	His	His	Tyr
			100					105					110		
Asp	Gln	Ile	Phe	Thr	Ala	His	Gly	Val	Ile	Met	Ile	Phe	Phe	Val	Ala
		115					120					125			
Met	Pro	Leu	Val	Ile	Gly	Leu	Met	Asn	Val	Val	Val	Pro	Leu	Gln	Ile
	130					135					140				
Gly	Ala	Arg	Asp	Val	Ala	Phe	Pro	Phe	Leu	Asn	Asn	Leu	Ser	Phe	Trp
145				150					155						160
Phe	Thr	Val	Val	Gly	Val	Ile	Leu	Val	Asn	Leu	Ser	Leu	Gly	Val	Gly
				165					170					175	
Glu	Phe	Ala	Gln	Thr	Gly	Trp	Leu	Ala	Tyr	Pro	Pro	Leu	Ser	Gly	Ile
			180					185					190		
Glu	Tyr	Ser	Pro	Gly	Val	Gly	Val	Asp	Tyr	Trp	Ile	Trp	Ala	Leu	Gln
		195					200					205			
Leu	Ser	Gly	Val	Gly	Thr	Thr	Leu	Thr	Gly	Ile	Asn	Phe	Phe	Val	Thr
	210					215					220				
Ile	Leu	Lys	Met	Arg	Ala	Pro	Gly	Met	Thr	Met	Phe	Lys	Met	Pro	Val
225					230					235					240
Phe	Thr	Trp	Ala	Ser	Leu	Cys	Ala	Asn	Val	Leu	Ile	Ile	Ala	Ser	Phe
				245					250					255	
Pro	Ile	Leu	Thr	Val	Thr	Ile	Ala	Leu	Leu	Thr	Leu	Asp	Arg	Tyr	Leu
			260					265					270		
Gly	Thr	His	Phe	Phe	Thr	Asn	Asp	Met	Gly	Gly	Asn	Met	Met	Met	Tyr
		275					280					285			
Ile	Asn	Leu	Ile	Trp	Ala	Trp	Gly	His	Pro	Glu	Val	Tyr	Ile	Leu	Val
	290					295					300				
Leu	Pro	Val	Phe	Gly	Val	Phe	Ser	Glu	Ile	Ala	Ala	Thr	Phe	Ser	Arg
305					310					315					320
Lys	Arg	Leu	Phe	Gly	Tyr	Thr	Ser	Leu	Val	Trp	Ala	Thr	Val	Cys	Ile
				325					330					335	
Thr	Val	Leu	Ser	Phe	Ile	Val	Trp	Leu	His	His	Phe	Phe	Thr	Met	Gly
			340					345					350		
Ala	Gly	Ala	Asn	Val	Asn	Ala	Phe	Phe	Gly	Ile	Thr	Thr	Met	Ile	Ile
		355					360					365			
Ala	Ile	Pro	Thr	Gly	Val	Lys	Ile	Phe	Asn	Trp	Leu	Phe	Thr	Met	Tyr
	370					375					380				
Gln	Gly	Arg	Ile	Val	Phe	His	Ser	Ala	Met	Leu	Trp	Thr	Ile	Gly	Phe

385 390 395 400
 Ile Val Thr Phe Ser Val Gly Gly Met Thr Gly Val Leu Leu Ala Val
 405 410 415
 Pro Gly Ala Asp Phe Val Leu His Asn Ser Leu Phe Leu Ile Ala His
 420 425 430
 Phe His Asn Val Ile Ile Gly Gly Val Val Phe Gly Cys Phe Ala Gly
 435 440 445
 Val Thr Tyr Trp Trp Pro Lys Ala Phe Gly Phe Thr Leu Asn Glu Lys
 450 455 460
 Trp Gly Lys Arg Ala Phe Trp Phe Trp Ile Ile Gly Phe Phe Val Ala
 465 470 475 480
 Phe Met Pro Leu Tyr Val Leu Gly Phe Met Gly Met Thr Arg Arg Leu
 485 490 495
 Ser Gln Gln Ile Asp Pro Gln Phe His Pro Met Leu Met Ile Ala Ala
 500 505 510
 Gly Gly Ala Ala Leu Ile Ala Cys Gly Ile Leu Cys Gln Leu Ile Gln
 515 520 525
 Tyr Tyr Val Ser Ile Arg Asp Arg Asn Leu Asn Arg Asp Leu Thr Gly
 530 535 540
 Asp Pro Trp Gly Gly Arg Thr Leu Glu Trp Ser Thr Ser Ser Pro Pro
 545 550 555 560
 Pro Phe Tyr Asn Phe Ala Val Val Pro His Ile His Glu Arg Asp Ala
 565 570 575
 Phe Trp Glu Met Lys Glu Lys Gly Glu Ala Tyr Lys Gln Pro Glu His
 580 585 590
 Tyr Glu Glu Ile His Met Pro Lys Asn Ser Gly Ala Gly Ile Val Ile
 595 600 605
 Ala Ala Phe Ala Thr Val Phe Gly Phe Ala Met Ile Trp His Ile Trp
 610 615 620
 Trp Met Ala Ile Val Gly Phe Ala Gly Ile Val Ile Ser Trp Ile Val
 625 630 635 640
 Lys Ser Phe Asp Glu Asp Val Asp Tyr Tyr Val Pro Val Arg Glu Val
 645 650 655
 Glu Lys Leu Glu Asn Gln His Phe Asp Glu Ile Ser Lys Ala Gly Leu
 660 665 670
 Lys Asn Gly Asn
 675

<210> 7580

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 7580

Pro Tyr Pro Tyr Tyr Val Pro Glu Pro Val Leu Ala Leu Pro Gly Arg
 1 5 10 15
 Gly Met Asp Leu Cys Val Leu Cys Cys Leu Ser Asp Gly Gly Asp Val
 20 25 30
 Met Ser His Ser Asn Asp His Gly Ala Ser His Gly Ser Val Lys Thr
 35 40 45
 Tyr Met Thr Gly Phe Ile Leu Ser Ile Ile Leu Thr Val Ile Pro Phe
 50 55 60
 Trp Met Val Met Asn Gly Ser Ala Ser Lys Pro Val Ile Leu Gly Ala
 65 70 75 80
 Ile Leu Val Thr Ala Val Ile Gln Ile Leu Val His Leu Val Cys Phe
 85 90 95
 Leu His Met Asn Thr Lys Ser Asp Glu Gly Trp Asn Met Thr Ala Phe
 100 105 110
 Ile Phe Thr Val Ile Ile Ile Ala Ile Leu Val Val Gly Ser Ile Trp
 115 120 125
 Ile Met Trp Asn Leu Asn Tyr Asn Met Met Val His

130

135

140

<210> 7581

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7581

Gly Gly Thr Met Lys Val Thr Val Leu Gly Cys Gly Ala Leu Gly Gln
 1 5 10 15
 Leu Trp Leu Thr Ala Leu Cys Lys Gln Gly His Asp Val Gln Gly Trp
 20 25 30
 Leu Arg Ile Pro Gln Pro Tyr Cys Ser Val Asn Val Met Gly Thr Asp
 35 40 45
 Gly Ser Ile Phe Asn Glu Ser Leu Thr Ala Asn Asp Pro Glu Phe Leu
 50 55 60
 Ala Thr Ser Asp Leu Leu Leu Val Thr Leu Lys Ala Trp Gln Val Ser
 65 70 75 80
 Asp Ala Val Lys Ser Leu Ala Ala Gln Leu Pro Glu Ser Thr Pro Ile
 85 90 95
 Leu Leu Ile His Asn Gly Met Gly Thr Ile Glu Glu Leu Lys Ser Val
 100 105 110
 Arg Gln Pro Leu Leu Met Gly Thr Thr Thr His Ala Ala Arg Arg Asp
 115 120 125
 Gly Asn Val Ile Ile His Val Ala Ser Gly Ile Thr His Ile Gly Pro
 130 135 140
 Ala Arg Glu Gln Pro Gly Asp Tyr Ser Tyr Leu Ala Asp Thr Leu Gln
 145 150 155 160
 Ser Thr Leu Pro Asp Val Ala Trp His Asn Asn Ile Arg Ala Glu Leu
 165 170 175
 Trp Arg Lys Leu Ala Val Asn Cys Ala Ile Asn Pro Leu Thr Ala Leu
 180 185 190
 Leu Asp Cys Pro Asn Gly Glu Leu Arg Gln His Pro Asp Arg Val Ala
 195 200 205
 Leu Ile Cys Arg Glu Val Ala Ala Val Ile Glu Arg Glu Gly Tyr His
 210 215 220
 Thr Ser Glu Ser Asp Leu Arg Tyr Tyr Val Asp Gln Val Ile Glu Ser
 225 230 235 240
 Thr Ala Glu Asn Ile Ser Ser Met Leu Gln Asp Ile Arg Ala Met Arg
 245 250 255
 His Thr Glu Ile Asp Tyr Ile Thr Gly Tyr Leu Leu Lys Arg Ala Arg
 260 265 270
 Ala His Gly Ile Thr Val Ala Glu Asn Ser Arg Leu Phe Glu Leu Val
 275 280 285
 Lys Arg Lys Glu Ser Glu Tyr Glu Arg Ile Gly Thr Gly Met Pro Arg
 290 295 300
 Pro Trp
 305

<210> 7582

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7582

Thr Tyr Cys Leu Asn Ser Arg Ser Gly Thr Met Gln Tyr Thr Thr Leu
 1 5 10 15
 Gly Lys Thr Asp Leu Lys Val Ser Arg Leu Cys Leu Gly Cys Met Thr
 20 25 30
 Phe Gly Glu Pro Asp Arg Gly Asn His Ala Trp Thr Leu Pro Glu Glu
 35 40 45

Ser Ser Arg Pro Ile Ile Lys Arg Ala Ile Asp Gly Gly Ile Asn Phe
 50 55 60
 Phe Asp Thr Ala Asn Ser Tyr Ser Asp Gly Ser Ser Glu Glu Ile Val
 65 70 75 80
 Gly Arg Ala Leu Arg Asp Phe Ala Arg Arg Asp Asp Val Val Val Ala
 85 90 95
 Thr Lys Val Tyr Tyr Pro Ser Gly Asp Leu Ala Glu Gly Leu Ser Arg
 100 105 110
 Ala Gln Ile Leu Arg Ser Ile Asp Asp Ser Leu Arg Arg Leu Asn Met
 115 120 125
 Asp Tyr Val Asp Leu Leu Gln Ile His Arg Trp Asp Tyr Asn Thr Pro
 130 135 140
 Ile Glu Glu Thr Leu Glu Ala Leu Asn Asp Val Val Lys Ala Gly Lys
 145 150 155 160
 Ala Arg Tyr Ile Gly Ala Ser Ser Met His Ala Ser Gln Phe Ala Gln
 165 170 175
 Ala Leu Asp Leu Gln Ala Gln His Gly Trp Ala Arg Phe Val Thr Met
 180 185 190
 Gln Asp His Tyr Asn Leu Ile Tyr Arg Glu Glu Glu Arg Glu Met Leu
 195 200 205
 Pro Leu Cys Tyr Gln Glu Gly Val Ala Val Ile Pro Trp Ser Pro Leu
 210 215 220
 Ala Arg Gly Arg Leu Thr Arg Pro Trp Gly Glu Thr Thr Ala Arg Leu
 225 230 235 240
 Val Ser Asp Glu Val Gly Lys Asn Leu Tyr Asp Asp Thr Glu Thr Ser
 245 250 255
 Asp Ala Leu Ile Ala Glu Arg Leu Ala Gly Ile Ala Asp Asp Ile Gly
 260 265 270
 Ala Thr Arg Ala Gln Val Ala Leu Ala Trp Leu Leu Ser Lys Arg Gly
 275 280 285
 Val Ala Ala Pro Ile Val Gly Thr Ser Arg Glu Glu Gln Leu Asp Glu
 290 295 300
 Leu Leu Ser Ala Val Asp Leu Ser Leu Thr Pro Glu Gln Ile Ala Glu
 305 310 315 320
 Leu Glu Thr Pro Tyr Gln Gln His Pro Val Val Gly Phe Lys
 325 330 335

<210> 7583

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 7583

Lys Met Ala Thr Asp Thr Leu Ala His Ser Thr Ala His Ala His Glu
 1 5 10 15
 His Ala His His Asp Thr Gly Pro Thr Lys Val Phe Gly Phe Trp Ile
 20 25 30
 Tyr Leu Met Ser Asp Cys Ile Leu Phe Cys Cys Leu Phe Ala Thr Tyr
 35 40 45
 Ala Val Leu Val Asn Gly Thr Ala Gly Gly Pro Thr Gly Lys Asp Ile
 50 55 60
 Phe Glu Leu Pro Phe Val Leu Val Glu Thr Ala Leu Leu Leu Phe Ser
 65 70 75 80
 Ser Ile Thr Tyr Gly Met Ala Ala Ile Ala Met Tyr Lys Asn Asn Lys
 85 90 95
 Ser Gln Val Val Ser Trp Leu Ala Leu Thr Trp Leu Phe Gly Ala Gly
 100 105 110
 Phe Ile Gly Met Glu Ile Tyr Glu Phe His His Leu Ile Met Glu Gly
 115 120 125
 Phe Gly Pro Asp Arg Ser Gly Phe Leu Ser Ala Phe Phe Ala Leu Val
 130 135 140

Gly Thr His Gly Leu His Val Thr Ser Gly Leu Ile Trp Met Ala Val
 145 150 155 160
 Leu Met Phe Gln Ile Ser Arg Arg Gly Leu Thr Ser Thr Asn Arg Thr
 165 170 175
 Arg Ile Met Cys Leu Ser Leu Phe Trp His Phe Leu Asp Val Val Trp
 180 185 190
 Ile Cys Val Phe Ser Val Val Tyr Leu Met Gly Ala Met
 195 200 205

<210> 7584

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7584

Asn Glu Arg Arg Val Ser Met Ser Ala Ser Ala Leu Val Cys Leu Ala
 1 5 10 15
 Pro Gly Ser Glu Glu Thr Glu Ala Val Thr Thr Ile Asp Leu Leu Val
 20 25 30
 Arg Gly Gly Ile Lys Val Thr Thr Ala Ser Val Ala Ser Asp Gly Ser
 35 40 45
 Leu Ala Ile Thr Cys Ser Arg Gly Val Lys Ile Leu Ala Asp Ala Pro
 50 55 60
 Leu Val Gln Val Ala Asp Gly Asp Tyr Asp Ile Ile Val Leu Pro Gly
 65 70 75 80
 Gly Leu Lys Gly Ala Glu Cys Phe Arg Asp Ser Pro Leu Leu Val Glu
 85 90 95
 Thr Val Arg Gln Phe His Leu Ser Gly Arg Ile Val Ala Ala Ile Cys
 100 105 110
 Ala Ala Ala Gly Thr Val Leu Val Pro His Asp Ile Phe Pro Ile Gly
 115 120 125
 Asn Met Thr Gly Phe Pro Gly Leu Lys Asp Thr Ile Pro Glu Asp Gln
 130 135 140
 Trp Val Asp Lys Arg Val Val Trp Asp Pro Arg Val Asn Leu Leu Thr
 145 150 155 160
 Ser Gln Gly Pro Gly Thr Ala Ile Asp Phe Gly Leu Lys Ile Ile Asp
 165 170 175
 Leu Leu Val Gly Arg Glu Lys Ala Tyr Glu Val Ala Ser Ser Leu Val
 180 185 190
 Met Ala Ala Gly Ile Tyr Asn Tyr Tyr Glu
 195 200

<210> 7585

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7585

Phe Thr Met Pro Lys Lys Asn Asp Ala Pro Ala Ser Phe Glu Thr Ala
 1 5 10 15
 Leu Ser Glu Leu Glu Gln Ile Val Thr Arg Leu Glu Ser Gly Asp Leu
 20 25 30
 Pro Leu Glu Asp Ala Leu Asn Glu Phe Glu Arg Gly Val Gln Leu Ala
 35 40 45
 Arg Gln Gly Gln Val Lys Leu Gln Gln Ala Glu Gln Arg Val Gln Ile
 50 55 60
 Leu Leu Ser Asp Ser Glu Asp Ala Lys Thr Thr Pro Phe Thr Pro Asp
 65 70 75 80
 Ala Glu

<210> 7586
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7586

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Met Asp Phe Ser Asn Ala Leu Gln Ala Arg Val Ile Arg Ala Asn Asp
1      5      10      15
Ala Leu Arg Arg Phe Ile Glu Pro Gln Pro Phe Gln Asn Thr Pro Leu
20      25      30
Val Glu Ala Met His Tyr Gly Ala Leu Leu Gly Gly Lys Arg Leu Arg
35      40      45
Pro Phe Leu Val Tyr Ala Thr Gly Asn Met Phe Gly Ile Ser Asp Asn
50      55      60
Thr Leu Asp Ala Pro Ala Ala Ala Val Glu Cys Ile His Ala Tyr Ser
65      70      75      80
Leu Ile His Asp Asp Leu Pro Ala Met Asp Asp Asp Asp Leu Arg Arg
85      90      95
Gly Gln Pro Thr Cys His Ile Lys Phe Gly Glu Ala Asn Ala Ile Leu
100     105     110
Ala Gly Asp Ala Leu Gln Thr Leu Ala Phe Ser Ile Leu Ser Asp Ala
115     120     125
Pro Met Val Glu Val Ser Asp Arg Asp Arg Leu Ala Met Val Ser Glu
130     135     140
Leu Ala Met Ala Ser Gly Val Ala Gly Met Cys Gly Gly Gln Ala Leu
145     150     155     160
Asp Leu Glu Ala Glu Gly Arg Gln Val Thr Leu Glu Gln Leu Glu Arg
165     170     175
Ile His Arg His Lys Thr Gly Ala Leu Ile Arg Ala Ala Val Arg Leu
180     185     190
Gly Ala Leu Ser Ala Gly Glu Arg Gly Arg Lys Ala Leu Pro Ile Leu
195     200     205
Asp Arg Tyr Ala Glu Ser Ile Gly Leu Ala Phe Gln Val Gln Asp Asp
210     215     220
Ile Leu Asp Val Val Gly Asp Thr Ala Thr Leu Gly Lys Arg Gln Gly
225     230     235     240
Ala Asp Gln Gln Leu Gly Lys Ser Thr Tyr Pro Ala Leu Leu Gly Leu
245     250     255
Glu His Ala Gln Arg Lys Ala Arg Asp Leu Ile Asp Asp Ala Arg Gln
260     265     270
Ser Leu Asn Glu Leu Ala Ala Gln Ser Leu Asp Thr Ser Ala Leu Glu
275     280     285
Ala Leu Ala Asp Tyr Ile Ile Gln Arg Asp Lys
290     295     300

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<210> 7587
 <211> 629
 <212> PRT
 <213> Enterobacter cloacae

<400> 7587

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Thr Ile Asn Leu Asp Glu Pro Leu Met Ser Phe Asp Ile Ala Lys Tyr
1      5      10      15
Pro Thr Leu Ala Leu Val Asp Ser Thr Gln Glu Leu Arg Leu Leu Pro
20      25      30
Lys Glu Ser Leu Pro Lys Leu Cys Asp Glu Leu Arg Arg Tyr Leu Leu
35      40      45
Asp Ser Val Ser Arg Ser Ser Gly His Phe Ala Ser Gly Leu Gly Thr
50      55      60
Val Glu Leu Thr Val Ala Leu His Tyr Val Tyr Asn Thr Pro Phe Asp
65      70      75      80

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Gln	Leu	Ile	Trp	Asp	Val	Gly	His	Gln	Ala	Tyr	Pro	His	Lys	Ile	Leu
				85					90					95	
Thr	Gly	Arg	Arg	Asp	Lys	Ile	Gly	Thr	Ile	Arg	Gln	Lys	Gly	Gly	Leu
			100					105					110		
His	Pro	Phe	Pro	Trp	Arg	Gly	Glu	Ser	Glu	Tyr	Asp	Val	Leu	Ser	Val
		115					120					125			
Gly	His	Ser	Ser	Thr	Ser	Ile	Ser	Ala	Gly	Ile	Gly	Ile	Ala	Val	Ala
	130					135					140				
Ala	Glu	Lys	Glu	Asn	Lys	Gln	Arg	Arg	Thr	Val	Cys	Val	Ile	Gly	Asp
145					150					155					160
Gly	Ala	Ile	Thr	Ala	Gly	Met	Ala	Phe	Glu	Ala	Met	Asn	His	Ala	Gly
				165				170						175	
Asp	Ile	Lys	Pro	Asp	Met	Leu	Val	Ile	Leu	Asn	Asp	Asn	Glu	Met	Ser
			180					185					190		
Ile	Ser	Glu	Asn	Val	Gly	Ala	Leu	Asn	Asn	His	Leu	Ala	Gln	Leu	Leu
		195					200					205			
Ser	Gly	Lys	Leu	Tyr	Ser	Ser	Leu	Arg	Glu	Gly	Gly	Lys	Lys	Val	Phe
	210					215					220				
Ser	Gly	Val	Pro	Pro	Ile	Lys	Glu	Leu	Leu	Lys	Arg	Thr	Glu	Glu	His
225					230					235					240
Ile	Lys	Gly	Met	Val	Pro	Gly	Thr	Leu	Phe	Glu	Glu	Leu	Gly	Gly	Phe
				245					250					255	
Asn	Tyr	Ile	Gly	Pro	Val	Asp	Gly	His	Asp	Val	Leu	Gly	Leu	Val	Thr
			260					265					270		
Thr	Leu	Lys	Asn	Met	Arg	Asp	Leu	Lys	Gly	Pro	Gln	Phe	Leu	His	Ile
		275					280					285			
Met	Thr	Lys	Lys	Gly	Arg	Gly	Tyr	Glu	Pro	Ala	Glu	Lys	Asp	Pro	Ile
	290					295					300				
Thr	Phe	His	Ala	Val	Pro	Lys	Phe	Asp	His	Thr	Ser	Gly	Cys	Leu	Pro
305					310					315					320
Lys	Ser	Ser	Gly	Gly	Met	Pro	Ser	Tyr	Ser	Lys	Ile	Phe	Gly	Asp	Trp
				325					330					335	
Leu	Cys	Glu	Thr	Ala	Ala	Lys	Asp	Asn	Met	Leu	Met	Ala	Val	Thr	Pro
			340					345					350		
Ala	Met	Arg	Glu	Gly	Ser	Gly	Met	Val	Glu	Phe	Ser	Lys	Lys	Tyr	Pro
		355					360					365			
Asp	Gln	Tyr	Phe	Asp	Val	Ala	Ile	Ala	Glu	Gln	His	Ala	Val	Thr	Phe
	370					375					380				
Ala	Ala	Gly	Leu	Ala	Ile	Gly	Gly	Tyr	Lys	Pro	Val	Val	Ala	Ile	Tyr
385					390					395					400
Ser	Thr	Phe	Leu	Gln	Arg	Ala	Tyr	Asp	Gln	Val	Ile	His	Asp	Val	Ala
				405					410					415	
Ile	Gln	Lys	Leu	Pro	Val	Leu	Phe	Ala	Ile	Asp	Arg	Ala	Gly	Ile	Val
			420					425					430		
Gly	Ala	Asp	Gly	Gln	Thr	His	Gln	Gly	Ala	Phe	Asp	Leu	Ser	Phe	Leu
		435					440					445			
Arg	Cys	Ile	Pro	Asp	Met	Val	Ile	Met	Thr	Pro	Ser	Asp	Glu	Asn	Glu
	450					455					460				
Cys	Arg	Gln	Met	Leu	Tyr	Thr	Gly	Tyr	His	Tyr	Gln	Asp	Gly	Pro	Cys
465					470					475					480
Ala	Val	Arg	Tyr	Pro	Arg	Gly	Asn	Ala	Leu	Gly	Val	Glu	Leu	Gln	Pro
				485					490					495	
Leu	Glu	Lys	Leu	Asp	Ile	Gly	Lys	Ala	Leu	Val	Lys	Arg	Arg	Gly	Glu
			500					505					510		
Lys	Val	Ala	Ile	Leu	Asn	Phe	Gly	Thr	Leu	Met	Pro	Glu	Ala	Ala	Lys
		515					520					525			
Val	Ala	Glu	Asn	Leu	Asn	Ala	Thr	Leu	Val	Asp	Met	Arg	Phe	Val	Lys
		530				535					540				
Pro	Leu	Asp	Glu	Ser	Leu	Ile	Leu	Ser	Met	Ala	Glu	Ser	His	Asp	Val
545					550					555					560
Leu	Val	Thr	Leu	Glu	Glu	Asn	Ala	Ile	Met	Gly	Gly	Ala	Gly	Ser	Gly

				565					570				575				
Val	Asn	Glu	Val	Leu	Met	Ala	Asn	Arg	Lys	Ala	Val	Pro	Val	Leu	Asn		
			580					585					590				
Leu	Gly	Leu	Pro	Asp	His	Phe	Ile	Pro	Gln	Gly	Thr	Gln	Asp	Glu	Ala		
		595					600					605					
Arg	Ala	Asp	Ile	Gly	Leu	Asp	Ala	Ala	Gly	Ile	Glu	Ala	Lys	Ile	Arg		
	610					615					620						
Thr	Trp	Leu	Ala														
625																	

<210> 7588

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7588

Lys	Ser	Ser	Ile	Lys	Ser	Pro	Ile	Ser	Ala	Leu	Pro	Pro	Phe	Thr	Ala		
1				5					10					15			
Ala	Ser	Lys	Thr	Ser	Lys	Ser	Leu	Ala	Lys	Arg	Ser	Pro	Ala	Tyr	Arg		
			20					25					30				
Ile	Lys	Thr	Met	His	Asp	Glu	Met	Tyr	Met	Ala	Arg	Ala	Met	Lys	Leu		
		35					40					45					
Ala	Gln	Arg	Gly	Arg	Phe	Thr	Thr	His	Pro	Asn	Pro	Asn	Val	Gly	Cys		
	50					55					60						
Val	Ile	Val	Lys	Asp	Gly	Glu	Ile	Val	Gly	Glu	Gly	Phe	His	Tyr	Arg		
65				70					75						80		
Ala	Gly	Glu	Pro	His	Ala	Glu	Val	His	Ala	Leu	Arg	Met	Ala	Gly	Glu		
				85					90					95			
Lys	Ala	Arg	Gly	Ala	Thr	Ala	Tyr	Val	Thr	Leu	Glu	Pro	Cys	Ser	His		
			100					105					110				
His	Gly	Arg	Thr	Pro	Pro	Cys	Cys	Glu	Ala	Leu	Ile	Ala	Ala	Gly	Val		
		115					120					125					
Ser	Arg	Val	Val	Ala	Ala	Met	Gln	Asp	Pro	Asn	Pro	Gln	Val	Ala	Gly		
	130					135					140						
Arg	Gly	Leu	Tyr	Arg	Leu	Gln	Gln	Glu	Gly	Ile	Asp	Val	Ser	His	Gly		
145					150					155					160		
Leu	Met	Met	Gln	Asp	Ala	Glu	Ala	Leu	Asn	Lys	Gly	Phe	Leu	Lys	Arg		
				165					170					175			
Met	Arg	Thr	Gly	Phe	Pro	Phe	Ile	Gln	Leu	Lys	Leu	Gly	Ala	Ser	Leu		
			180					185					190				
Asp	Gly	Arg	Thr	Ala	Met	Ala	Asn	Gly	Glu	Ser	Gln	Trp	Ile	Thr	Ser		
		195					200					205					
Pro	Gln	Ala	Arg	Arg	Asp	Val	Gln	Arg	Leu	Arg	Ala	Gln	Ser	His	Ala		
	210					215					220						
Ile	Leu	Thr	Ser	Ser	Glu	Thr	Val	Leu	Ala	Asp	Asp	Pro	Ala	Met	Thr		
225					230					235					240		
Val	Arg	Trp	Glu	Glu	Leu	Asn	Ala	Asp	Thr	Gln	Ala	Leu	Tyr	Pro	Gln		
				245					250					255			
Glu	Asn	Leu	Arg	Gln	Pro	Leu	Arg	Ile	Ile	Ile	Asp	Ser	Gln	Asn	Arg		
		260						265					270				
Val	Thr	Pro	Glu	His	Arg	Ile	Val	Gln	Gln	Pro	Gly	Glu	Thr	Trp	Ile		
		275					280					285					
Ala	Arg	Thr	Lys	Glu	Asp	Thr	Arg	Glu	Trp	Pro	Gln	Gly	Val	Arg	Ser		
	290					295					300						
Ile	Thr	Val	Pro	Glu	His	Asn	Gly	His	Leu	Asp	Leu	Val	Val	Leu	Met		
305					310					315					320		
Met	Leu	Leu	Gly	Lys	Gln	Gln	Val	Asn	Ser	Ile	Trp	Val	Glu	Ala	Gly		
				325					330					335			
Pro	Thr	Leu	Ala	Gly	Ala	Leu	Leu	Gln	Ala	Gly	Leu	Val	Asp	Glu	Leu		
		340						345					350				
Leu	Val	Tyr	Val	Ala	Pro	Lys	Leu	Leu	Gly	Asn	Asp	Ala	Arg	Gly	Leu		

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<210> 7589
<211> 160
<212> PRT
<213> Enterobacter cloacae
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<210> 7590
<211> 147
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7591
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 7591

Ala	Ser	Arg	Tyr	Ala	Ser	Leu	Arg	Val	Leu	Cys	Asn	Ala	Thr	Lys	Met
1				5					10					15	
Lys	Gly	Glu	Glu	Lys	Met	Pro	Ser	Phe	Asp	Ile	Val	Ser	Glu	Val	Asp
		20						25					30		
Leu	Gln	Glu	Ala	Arg	Asn	Gly	Val	Glu	Asn	Ala	Val	Arg	Glu	Val	Glu
		35					40					45			
Ser	Arg	Phe	Asp	Phe	Arg	Gly	Val	Glu	Ala	Thr	Ile	Glu	Leu	Asn	Asp
	50					55					60				
Ala	Asn	Lys	Thr	Ile	Lys	Val	Leu	Ser	Glu	Ser	Asp	Phe	Gln	Val	Asn
65					70				75					80	
Gln	Leu	Leu	Asp	Ile	Leu	Arg	Ala	Lys	Leu	Leu	Lys	Arg	Gly	Ile	Glu
			85						90					95	
Gly	Thr	Ser	Leu	Asp	Val	Pro	Glu	Asp	Phe	Val	His	Ser	Gly	Lys	Thr
		100						105					110		
Trp	Phe	Val	Glu	Ala	Lys	Leu	Lys	Gln	Gly	Ile	Glu	Ser	Ala	Val	Gln
	115						120					125			
Lys	Lys	Ile	Val	Lys	Leu	Ile	Lys	Asp	Ser	Lys	Leu	Lys	Val	Gln	Ala
	130					135					140				
Gln	Ile	Gln	Gly	Glu	Glu	Ile	Arg	Val	Thr	Gly	Lys	Ser	Arg	Asp	Asp
145					150					155				160	
Leu	Gln	Ser	Val	Met	Ala	Leu	Val	Arg	Gly	Gly	Asp	Leu	Gly	Gln	Pro
			165						170					175	
Phe	Gln	Phe	Lys	Asn	Phe	Arg	Asp								
		180						185							

<210> 7592
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 7592

Gln	Gly	His	Arg	Met	His	Cys	Pro	Phe	Cys	Ser	Ala	Val	Asp	Thr	Lys
1				5					10					15	
Val	Ile	Asp	Ser	Arg	Leu	Val	Gly	Glu	Gly	Ser	Ser	Val	Arg	Arg	Arg
		20						25					30		
Arg	Gln	Cys	Leu	Val	Cys	Asn	Glu	Arg	Phe	Thr	Thr	Phe	Glu	Val	Ala
		35					40					45			
Glu	Leu	Val	Met	Pro	Arg	Val	Val	Lys	Ser	Asn	Asp	Val	Arg	Glu	Pro
	50					55					60				
Phe	Asn	Glu	Glu	Lys	Leu	Arg	Ser	Gly	Met	Leu	Lys	Ala	Leu	Glu	Lys
65					70				75					80	
Arg	Pro	Val	Ser	Ser	Asp	Asp	Val	Glu	Met	Ala	Leu	Asn	His	Ile	Lys
			85					90						95	
Ser	Tyr	Leu	Arg	Gly	Leu	Gly	Glu	Arg	Glu	Val	Pro	Ser	Lys	Met	Ile
		100						105					110		
Gly	Asn	Leu	Val	Met	Glu	Gln	Leu	Lys	Lys	Leu	Asp	Lys	Val	Ala	Tyr
	115						120					125			
Ile	Arg	Phe	Ala	Ser	Val	Tyr	Arg	Ser	Phe	Glu	Asp	Ile	Lys	Glu	Phe
	130					135					140				
Gly	Glu	Glu	Ile	Ala	Arg	Leu	Gln	Asp							
145					150										

<210> 7593
 <211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 7593

Arg Met Ala Cys Gly Glu Phe Ser Leu Ile Ala Arg Tyr Phe Asp Arg
 1 5 10 15
 Val Arg Thr Ser Arg Leu Asp Val Glu Thr Gly Ile Gly Asp Asp Cys
 20 25 30
 Ala Leu Leu Asn Ile Pro Glu Lys Gln Thr Leu Ala Ile Ser Thr Asp
 35 40 45
 Thr Leu Val Cys Gly Arg His Phe Leu Pro Asp Ile Asp Pro Ala Asp
 50 55 60
 Leu Ala Tyr Lys Ala Leu Ala Val Asn Val Ser Asp Leu Ala Ala Met
 65 70 75 80
 Gly Ala Asp Pro Ala Trp Leu Thr Leu Ala Leu Thr Leu Pro Glu Val
 85 90 95
 Asp Glu Ala Trp Leu Glu Ala Phe Ser Asp Ala Leu Phe Glu Gln Leu
 100 105 110
 Asn Tyr Tyr Asp Met Gln Leu Ile Gly Gly Asp Thr Thr Ala Gly Pro
 115 120 125
 Leu Ser Met Thr Leu Ala Ile His Gly Tyr Val Pro Ala Gly Arg Ala
 130 135 140
 Leu Lys Arg Ser Gly Ala Lys Pro Gly Asp Trp Ile Tyr Val Thr Gly
 145 150 155 160
 Thr Pro Gly Asp Ser Ala Ala Gly Leu Ala Ile Leu Gln Asn Arg Leu
 165 170 175
 Thr Val Glu Asp Ala Asp Asp Ala Ala Tyr Leu Val Lys Arg His Leu
 180 185 190
 Arg Pro Thr Pro Arg Ile Leu His Gly Gln Ala Leu Arg Glu Arg Ala
 195 200 205
 Ser Ser Ala Ile Asp Leu Ser Asp Gly Leu Ile Ser Asp Leu Gly His
 210 215 220
 Ile Leu Lys Ala Ser Gly Val Gly Ala Arg Ile Asp Leu Asp Leu Phe
 225 230 235 240
 Pro Leu Ser Glu Pro Leu Arg Arg His Ala Glu Pro Glu Gln Ala Leu
 245 250 255
 Arg Trp Ala Leu Ser Gly Gly Glu Asp Tyr Glu Leu Cys Phe Thr Val
 260 265 270
 Pro Glu Leu Asn Arg Gly Thr Leu Asp Val Ala Leu Ala His Leu Gly
 275 280 285
 Ala Lys Phe Thr Cys Ile Gly Gln Val Met Pro Glu Ser Glu Gly Leu
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 Leu Phe Val Arg Asp Gly Ala Pro Val Thr Leu Asp Trp Lys Gly Tyr
 305 310 315 320
 Asp His Phe Ala
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<210> 7594

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 7594

Ala Cys Leu Arg Asn Ile Ala Ala Met Lys Phe Ile Ile Lys Leu Phe
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 Pro Glu Ile Thr Ile Lys Ser Gln Ser Val Arg Leu Arg Phe Ile Lys
 20 25 30
 Ile Leu Thr Gly Asn Ile Arg Asn Val Leu Lys His Tyr Asp Glu Thr
 35 40 45
 Leu Ala Val Val Arg His Trp Asp His Val Glu Val Arg Ala Lys Asp
 50 55 60

Glu	Ser	Lys	Arg	Leu	Asp	Ile	Arg	Asp	Ala	Leu	Thr	Arg	Ile	Pro	Gly
65					70					75					80
Ile	His	His	Ile	Leu	Glu	Val	Glu	Asp	Val	Pro	Phe	Ser	Asp	Met	His
				85					90					95	
Asp	Ile	Phe	Glu	Lys	Ala	Leu	Val	Gln	Tyr	Arg	Asp	Gln	Ile	Glu	Gly
			100					105					110		
Lys	Thr	Phe	Cys	Val	Arg	Val	Lys	Arg	Arg	Gly	Lys	His	Glu	Phe	Ser
		115					120					125			
Ser	Ile	Glu	Val	Glu	Arg	Tyr	Val	Gly	Gly	Gly	Leu	Asn	Gln	His	Val
	130					135					140				
Glu	Thr	Ala	Arg	Val	Arg	Leu	Thr	Asn	Pro	Asp	Val	Thr	Val	Asn	Leu
145					150					155					160
Glu	Ile	Glu	Asn	Asp	Arg	Leu	Leu	Leu	Val	Lys	Gly	Arg	Tyr	Glu	Gly
			165						170					175	
Ile	Gly	Gly	Phe	Pro	Ile	Gly	Thr	Gln	Glu	Asp	Val	Leu	Ser	Leu	Ile
			180					185					190		
Ser	Gly	Gly	Phe	Asp	Ser	Gly	Val	Ser	Ser	Tyr	Met	Leu	Met	Arg	Arg
	195						200					205			
Gly	Cys	Arg	Val	His	Tyr	Cys	Phe	Phe	Asn	Leu	Gly	Gly	Ala	Ala	His
	210					215					220				
Glu	Ile	Gly	Val	Arg	Gln	Val	Ala	His	Tyr	Leu	Trp	Asn	Arg	Phe	Gly
225					230					235					240
Ser	Ser	His	Arg	Val	Arg	Phe	Val	Ala	Ile	Asn	Phe	Glu	Pro	Val	Val
			245						250					255	
Gly	Glu	Ile	Leu	Glu	Lys	Val	Asp	Asp	Gly	Gln	Met	Gly	Val	Val	Leu
			260					265					270		
Lys	Arg	Met	Met	Val	Arg	Ala	Ala	Ser	Lys	Val	Ala	Glu	Arg	Tyr	Gly
	275						280					285			
Val	Gln	Ala	Leu	Val	Thr	Gly	Glu	Ala	Leu	Gly	Gln	Val	Ser	Ser	Gln
	290					295					300				
Thr	Leu	Thr	Asn	Leu	Arg	Leu	Ile	Asp	Asn	Val	Ser	Asp	Thr	Leu	Ile
305					310					315					320
Leu	Arg	Pro	Leu	Ile	Ser	His	Asp	Lys	Glu	His	Ile	Ile	Asp	Leu	Ala
			325						330					335	
Arg	Lys	Ile	Gly	Thr	Glu	Asp	Phe	Ala	Arg	Thr	Met	Pro	Glu	Tyr	Cys
			340					345					350		
Gly	Val	Ile	Ser	Lys	Ser	Pro	Thr	Ile	Lys	Ala	Val	Lys	Ala	Lys	Ile
	355						360					365			
Glu	Ala	Glu	Glu	Glu	Asn	Phe	Asp	Phe	Ser	Ile	Leu	Glu	Lys	Val	Val
	370					375					380				
Ala	Glu	Ala	Ser	Asn	Ile	Asp	Ile	Arg	Glu	Ile	Ala	Gln	Gln	Thr	Glu
385					390					395					400
Gln	Glu	Val	Val	Glu	Val	Glu	Thr	Val	Ser	Gly	Phe	Gly	Ala	Asn	Asp
			405						410					415	
Thr	Ile	Leu	Asp	Ile	Arg	Ser	Val	Asp	Glu	Gln	Asp	Asp	Lys	Pro	Leu
			420					425					430		
Gln	Val	Glu	Gly	Val	Glu	Val	Val	Ser	Leu	Pro	Phe	Tyr	Lys	Leu	Ser
		435					440					445			
Thr	Gln	Phe	Gly	Asp	Leu	Asp	Gln	Ser	Lys	Thr	Tyr	Leu	Leu	Trp	Cys
	450					455					460				
Glu	Arg	Gly	Val	Met	Ser	Arg	Leu	Gln	Ala	Leu	Tyr	Leu	Arg	Glu	Gln
465					470					475					480
Gly	Phe	Ala	Asn	Val	Lys	Val	Tyr	Arg	Pro						
			485						490						

<210> 7595

<211> 720

<212> PRT

<213> Enterobacter cloacae

<400> 7595

Arg	Ser	Glu	Arg	Ile	Leu	Ala	Thr	Thr	Thr	Ala	Glu	Arg	Val	Ile	Gln
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Ala	Thr	Pro	Asp	Tyr	His	Ala	Leu	Asn	Ala	Met	Leu	Asn	Leu	Tyr	Asp
			20					25					30		
Arg	Glu	Gly	Arg	Ile	Gln	Phe	Asp	Lys	Asp	Arg	Glu	Ala	Val	Asp	Ala
		35					40					45			
Phe	Phe	Ala	Ala	His	Val	Arg	Pro	Asn	Ser	Ile	Val	Phe	Gly	Ser	Gln
	50					55					60				
Gln	Glu	Arg	Leu	Asp	Trp	Leu	Val	Lys	Glu	Gly	Tyr	Tyr	Glu	Glu	Arg
65				70					75						80
Val	Leu	Thr	Arg	Tyr	Asp	Arg	Ala	Phe	Val	Val	Ala	Leu	Phe	Glu	Arg
				85					90					95	
Ala	His	Ala	Ser	Gly	Phe	Arg	Phe	Gln	Thr	Phe	Leu	Gly	Ala	Trp	Lys
			100					105					110		
Tyr	Tyr	Thr	Ser	Tyr	Thr	Leu	Lys	Thr	Phe	Asp	Gly	Lys	Arg	Tyr	Leu
		115					120					125			
Glu	Ser	Phe	Glu	Asp	Arg	Val	Val	Met	Val	Ala	Leu	Thr	Leu	Ala	Gln
	130					135					140				
Gly	Asp	Glu	Val	Leu	Ala	Glu	Ser	Leu	Thr	Glu	Glu	Ile	Leu	Ser	Gly
145				150						155					160
Arg	Phe	Gln	Pro	Ala	Thr	Pro	Thr	Phe	Leu	Asn	Cys	Gly	Lys	Ala	Gln
				165				170						175	
Arg	Gly	Glu	Leu	Val	Ser	Cys	Phe	Leu	Leu	Arg	Ile	Glu	Asp	Asn	Met
			180					185					190		
Glu	Ser	Ile	Gly	Arg	Ala	Val	Asn	Ser	Ala	Leu	Gln	Leu	Ser	Lys	Arg
	195						200					205			
Gly	Gly	Gly	Val	Ala	Phe	Leu	Leu	Ser	Asn	Leu	Arg	Glu	Ala	Gly	Ala
	210					215					220				
Pro	Ile	Lys	Arg	Ile	Glu	Asn	Gln	Ser	Ser	Gly	Val	Ile	Pro	Val	Met
225				230						235					240
Lys	Met	Leu	Glu	Asp	Ala	Phe	Ser	Tyr	Ala	Asn	Gln	Leu	Gly	Ala	Arg
				245					250					255	
Gln	Gly	Ala	Gly	Ala	Val	Tyr	Leu	His	Ala	His	His	Pro	Asp	Ile	Leu
			260					265					270		
Arg	Phe	Leu	Asp	Thr	Lys	Arg	Glu	Asn	Ala	Asp	Glu	Lys	Ile	Arg	Ile
		275					280					285			
Lys	Thr	Leu	Ser	Leu	Gly	Val	Val	Ile	Pro	Asp	Ile	Thr	Phe	Lys	Leu
	290					295					300				
Ala	Lys	Glu	Asn	Ala	Asp	Met	Ala	Leu	Phe	Ser	Pro	Tyr	Asp	Val	Glu
305				310						315					320
Arg	Ile	Tyr	Gly	Lys	Ala	Phe	Gly	Asp	Val	Ala	Ile	Ser	Glu	Leu	Tyr
			325					330						335	
Asp	Glu	Leu	Val	Ala	Asp	Asp	Arg	Ile	Arg	Lys	Lys	Thr	Ile	Asn	Ala
			340					345					350		
Arg	Asp	Phe	Phe	Gln	Thr	Leu	Ala	Glu	Ile	Gln	Phe	Glu	Ser	Gly	Tyr
		355					360					365			
Pro	Tyr	Ile	Met	Tyr	Glu	Asp	Thr	Val	Asn	Arg	Ala	Asn	Pro	Ile	Gly
	370					375					380				
Gly	Arg	Ile	Asn	Met	Ser	Asn	Leu	Cys	Ser	Glu	Ile	Leu	Gln	Val	Asn
385				390						395					400
Ser	Ala	Ser	Ser	Tyr	Asp	Glu	Asn	Leu	Asp	Tyr	Ala	Asp	Val	Gly	Lys
				405					410					415	
Asp	Ile	Ser	Cys	Asn	Leu	Gly	Ser	Leu	Asn	Ile	Ala	His	Thr	Met	Asp
			420					425					430		
Ser	Pro	Asp	Phe	Gly	Arg	Thr	Val	Glu	Thr	Ala	Ile	Arg	Gly	Leu	Thr
		435					440					445			
Ala	Val	Ser	Asp	Met	Ser	His	Ile	Arg	Ser	Val	Pro	Ser	Ile	Glu	Ala
	450					455					460				
Gly	Asn	Ala	Ala	Ser	His	Ala	Ile	Gly	Leu	Gly	Gln	Met	Asn	Leu	His
465				470						475					480
Gly	Tyr	Leu	Ala	Arg	Glu	Gly	Ile	Ala	Tyr	Gly	Ser	Pro	Glu	Gly	Leu

				485				490					495				
Asp	Phe	Thr	Asn	Leu	Tyr	Phe	Tyr	Thr	Val	Thr	Trp	His	Ala	Val	His		
			500					505					510				
Thr	Ser	Met	Met	Leu	Ala	Arg	Glu	Arg	His	Gln	Arg	Phe	Ala	Gly	Phe		
		515					520					525					
Glu	Gln	Ser	Arg	Tyr	Ala	Ser	Gly	Glu	Tyr	Phe	Ser	Gln	Tyr	Leu	Glu		
	530					535					540						
Gly	Asp	Trp	Gln	Pro	Lys	Thr	Glu	Lys	Val	Arg	Ala	Leu	Phe	Ala	Arg		
545					550					555					560		
Ala	Gly	Ile	Thr	Leu	Pro	Thr	Arg	Glu	Met	Trp	Gln	Gln	Leu	Arg	Glu		
				565					570						575		
Glu	Val	Met	Arg	Tyr	Gly	Ile	Tyr	Asn	Gln	Asn	Leu	Gln	Ala	Val	Pro		
			580					585					590				
Pro	Thr	Gly	Ser	Ile	Ser	Tyr	Ile	Asn	His	Ala	Thr	Ser	Ser	Ile	His		
		595					600					605					
Pro	Ile	Val	Ser	Lys	Ile	Glu	Ile	Arg	Lys	Glu	Gly	Lys	Thr	Gly	Arg		
	610					615					620						
Val	Tyr	Tyr	Pro	Ala	Pro	Phe	Met	Thr	Asn	Glu	Asn	Leu	Ala	Leu	Tyr		
625					630					635					640		
Gln	Asp	Ala	Tyr	Glu	Ile	Gly	Pro	Glu	Lys	Ile	Ile	Asp	Thr	Tyr	Ala		
				645					650						655		
Glu	Ala	Thr	Lys	His	Val	Asp	Gln	Gly	Leu	Ser	Leu	Thr	Leu	Phe	Phe		
			660					665					670				
Pro	Asp	Thr	Ala	Thr	Thr	Arg	Asp	Ile	Asn	Lys	Ala	Gln	Ile	Tyr	Ala		
		675					680					685					
Trp	Lys	Lys	Gly	Ile	Lys	Thr	Leu	Tyr	Tyr	Ile	Arg	Leu	Arg	Gln	Leu		
	690				695						700						
Ala	Leu	Glu	Gly	Thr	Glu	Ile	Glu	Gly	Cys	Val	Ser	Cys	Ala	Leu			
705					710					715					720		

<210> 7596

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7596

Gly	Glu	Trp	Met	Lys	Leu	Ser	Arg	Val	Ser	Ala	Val	Asn	Trp	Asn	Lys		
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Ile	Gln	Asp	Asp	Lys	Asp	Leu	Glu	Val	Trp	Asn	Arg	Leu	Thr	Ser	Asn		
			20					25					30				
Phe	Trp	Leu	Pro	Glu	Lys	Val	Pro	Leu	Ser	Asn	Asp	Ile	Pro	Ala	Trp		
		35					40					45					
Gln	Thr	Leu	Ser	His	Ala	Glu	Gln	Gln	Leu	Thr	Ile	Arg	Val	Phe	Thr		
	50					55					60						
Gly	Leu	Thr	Leu	Leu	Asp	Thr	Ile	Gln	Asn	Thr	Val	Gly	Ala	Pro	Ala		
65					70					75					80		
Leu	Met	Ser	Asp	Ala	Leu	Thr	Pro	His	Glu	Glu	Ala	Val	Met	Ser	Asn		
				85					90					95			
Ile	Ser	Phe	Met	Glu	Ala	Val	His	Ala	Arg	Ser	Tyr	Ser	Ser	Ile	Phe		
		100						105					110				
Ser	Thr	Leu	Cys	Gln	Thr	Arg	Asp	Val	Asp	Ala	Ala	Tyr	Ala	Trp	Ser		
		115					120					125					
Glu	Glu	Ser	Ala	Ser	Leu	Gln	Arg	Lys	Ala	Asp	Leu	Val	Leu	Glu	Tyr		
	130					135					140						
Tyr	Arg	Ala	Asp	Glu	Pro	Leu	Lys	Lys	Lys	Ile	Ala	Ser	Val	Phe	Leu		
145					150					155					160		
Glu	Ser	Phe	Leu	Phe	Tyr	Ser	Gly	Phe	Trp	Leu	Pro	Met	Tyr	Trp	Ser		
				165					170					175			
Ser	Arg	Gly	Lys	Leu	Thr	Asn	Thr	Ala	Asp	Leu	Ile	Arg	Leu	Ile	Ile		
			180					185					190				
Arg	Asp	Glu	Ala	Val	His	Gly	Tyr	Tyr	Ile	Gly	Tyr	Lys	Tyr	Gln	Lys		

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<210> 7597
<211> 407
<212> PRT
<213> Enterobacter cloacae
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Gln	Asp	Thr	Leu	Tyr	Cys	Met	Ala	Ile	Lys	Leu	Glu	Val	Lys	Asn	Leu
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Tyr	Lys	Val	Phe	Gly	Glu	His	Pro	Gln	Arg	Ala	Phe	Lys	Tyr	Ile	Glu
			20					25					30		
Lys	Gly	Leu	Ser	Lys	Glu	Gln	Ile	Leu	Glu	Lys	Thr	Gly	Leu	Ser	Leu
			35				40					45			
Gly	Val	Lys	Asp	Ala	Ser	Leu	Ala	Ile	Glu	Glu	Gly	Glu	Ile	Phe	Val
	50					55					60				
Ile	Met	Gly	Leu	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Met	Val	Arg	Leu	Leu
65					70					75					80
Asn	Arg	Leu	Ile	Glu	Pro	Thr	Arg	Gly	Gln	Val	Leu	Ile	Asp	Gly	Val
				85				90						95	
Asp	Ile	Ala	Arg	Ile	Ser	Asp	Ala	Glu	Leu	Arg	Glu	Val	Arg	Arg	Lys
			100					105					110		
Lys	Ile	Ala	Met	Val	Phe	Gln	Ser	Phe	Ala	Leu	Met	Pro	His	Met	Thr
		115					120					125			
Val	Leu	Asp	Asn	Thr	Ala	Phe	Gly	Met	Glu	Leu	Ala	Gly	Ile	Pro	Ala
	130					135					140				
Gln	Glu	Arg	Gln	Glu	Lys	Ala	Leu	Asp	Ala	Leu	Arg	Gln	Val	Gly	Leu
145					150					155					160
Glu	Asn	Tyr	Ala	His	Ala	Tyr	Pro	Asp	Glu	Leu	Ser	Gly	Gly	Met	Arg
				165					170					175	
Gln	Arg	Val	Gly	Leu	Ala	Arg	Ala	Leu	Ala	Ile	Asn	Pro	Asp	Ile	Leu
			180					185					190		
Leu	Met	Asp	Glu	Ala	Phe	Ser	Ala	Leu	Asp	Pro	Leu	Ile	Arg	Thr	Glu
		195					200					205			
Met	Gln	Asp	Glu	Leu	Val	Lys	Leu	Gln	Ala	Lys	His	Gln	Arg	Thr	Ile
	210					215					220				
Val	Phe	Ile	Ser	His	Asp	Leu	Asp	Glu	Ala	Met	Arg	Ile	Gly	Asp	Arg
225					230					235					240
Ile	Ala	Ile	Met	Gln	Asn	Gly	Glu	Val	Val	Gln	Val	Gly	Thr	Pro	Asp
				245					250					255	
Glu	Ile	Leu	Asn	Asn	Pro	Ala	Asn	Asp	Tyr	Val	Arg	Thr	Phe	Phe	Arg
			260					265					270		
Gly	Val	Asp	Ile	Ser	His	Val	Phe	Ser	Ala	Lys	Asp	Ile	Ala	Arg	Arg
		275					280					285			
Thr	Pro	Asn	Gly	Ile	Ile	Arg	Lys	Thr	Pro	Gly	Phe	Gly	Pro	Arg	Ser

290	295	300
Ala Leu Lys Leu Leu Gln Asp Glu Asp Arg Glu Tyr Gly Tyr Leu Val		
305	310	315
Glu Arg Gly Asn Lys Phe Val Gly Val Val Ser Ile Asp Ser Leu Lys		
	325	330
Thr Ala Leu Ser Glu Asn Gln Gly Ile Asp Ala Ala Leu Ile Asp Ala		
	340	345
Pro Leu Ala Val Asp Ala Glu Thr Pro Leu Ser Glu Leu Leu Ser His		
	355	360
Val Gly Gln Ala Pro Cys Ala Val Pro Val Val Gly Glu Glu Gln Gln		
	370	375
Tyr Val Gly Ile Ile Ser Lys Arg Met Leu Leu Gln Ala Leu Asp Arg		
385	390	395
Glu Gly Thr Asn Asn Gly		
	405	

<210> 7598

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7598

Ser Leu Asn Ser Arg Phe Leu Lys Leu Met Thr Lys Thr Thr Gln Gly	
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Leu Ser Pro Ala Leu Ile Leu Leu Met Ser Val Ala Thr Gly Leu Ala	
	20
Val Ala Ser Asn Tyr Tyr Ala Gln Pro Leu Leu Asp Thr Ile Ala Arg	
	35
Ala Phe Asp Leu Ser Ala Ser Ser Ala Gly Phe Ile Val Thr Ala Ala	
	50
Gln Leu Gly Tyr Ala Ala Gly Leu Leu Phe Leu Val Pro Leu Gly Asp	
65	70
Met Phe Glu Arg Arg Met Leu Ile Val Ser Met Thr Leu Leu Ala Ala	
	85
Gly Gly Met Leu Ile Thr Ala Ser Ser Gln Ser Leu Thr Met Met Ile	
	100
Ile Gly Thr Ala Leu Thr Gly Leu Phe Ser Val Val Ala Gln Ile Leu	
	115
Val Pro Leu Ala Ala Thr Leu Ala Ser Pro Glu Lys Arg Gly Lys Val	
	130
Val Gly Thr Ile Met Ser Gly Leu Leu Leu Gly Ile Leu Leu Ala Arg	
145	150
Thr Val Ala Gly Leu Leu Ala Ser Leu Gly Gly Trp Arg Thr Val Tyr	
	165
Trp Val Ala Ser Val Leu Met Leu Ile Met Ala Leu Ala Leu Trp Arg	
	180
Gly Leu Pro Lys Val Lys Gln Glu Asn His Leu Asn Tyr Pro Gln Leu	
	195
Leu Ala Ser Val Phe Ser Leu Phe Thr Arg Asp Lys Leu Leu Arg Thr	
	210
Arg Ala Ile Leu Gly Cys Leu Thr Phe Ala Asn Phe Ser Ile Leu Trp	
225	230
Thr Ser Met Ala Phe Leu Leu Ala Ala Pro Pro Phe Asn Tyr Ser Glu	
	245
Gly Val Ile Gly Leu Phe Gly Leu Ala Gly Ala Ala Gly Ala Leu Gly	
	260
Ala Arg Pro Ala Gly Gly Leu Ala Asp Lys Gly Lys Ser His Met Thr	
	275
Thr Ser Ala Gly Leu Val Leu Leu Leu Leu Ser Trp Ala Ala Ile Trp	
	290
Tyr Gly His Val Ser Val Leu Ala Leu Ile Val Gly Ile Leu Val Leu	

305					310					315				320
Asp	Leu	Thr	Val	Gln	Gly	Val	His	Ile	Thr	Asn	Gln	Thr	Val	Ile
				325					330					335
Arg	Met	Lys	Pro	Asp	Ala	Arg	Asn	Arg	Leu	Thr	Ala	Gly	Tyr	Met
			340					345					350	
Ser	Tyr	Phe	Ile	Gly	Gly	Ala	Ala	Gly	Ser	Leu	Ile	Ser	Ala	Ser
		355					360					365		
Trp	Gln	His	Ala	Gly	Trp	Thr	Gly	Val	Cys	Ala	Ile	Gly	Ala	Ile
	370					375					380			
Ala	Ala	Ile	Asn	Leu	Leu	Val	Trp	Trp	Arg	Gly	Tyr	His	Arg	Gln
385					390					395				400
Ala	Ile	His												

<210> 7599

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 7599

Gln	Gln	Val	Gly	Ser	Ala	Asp	Val	Lys	Ile	Lys	Arg	Ser	Trp	Arg	Thr
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Thr	Met	Ser	Ala	Asn	Ala	Glu	Asn	Thr	Pro	Pro	Gln	Gln	Pro	Val	Asn
			20					25					30		
Lys	Lys	Gly	Lys	Arg	Lys	Ser	Ala	Leu	Ile	Leu	Leu	Thr	Leu	Leu	Phe
		35					40					45			
Ile	Ile	Ile	Ala	Val	Ala	Tyr	Gly	Ile	Tyr	Trp	Phe	Leu	Val	Leu	Arg
		50				55					60				
His	Val	Glu	Glu	Thr	Asp	Ala	Tyr	Val	Ala	Gly	Asn	Gln	Val	Gln	
65					70				75					80	
Ile	Met	Ala	Gln	Val	Ser	Gly	Ser	Val	Thr	Lys	Val	Trp	Ala	Asp	Asn
				85				90						95	
Thr	Asp	Phe	Val	Lys	Lys	Ser	Asp	Val	Leu	Val	Thr	Leu	Asp	Pro	Thr
			100					105					110		
Asp	Ala	Gln	Gln	Ala	Phe	Glu	Lys	Ala	Gln	Thr	Ala	Leu	Ala	Ser	Ser
		115					120					125			
Val	Arg	Gln	Thr	Arg	Gln	Leu	Met	Ile	Asn	Ser	Lys	Gln	Leu	Gln	Ala
	130					135					140				
Asn	Ile	Asp	Val	Gln	Lys	Thr	Ala	Leu	Ala	Gln	Ala	Gln	Ser	Asp	Leu
145					150				155						160
Asn	Arg	Arg	Val	Pro	Leu	Gly	Thr	Ala	Asn	Leu	Ile	Gly	Arg	Glu	Glu
			165					170						175	
Leu	Gln	His	Ala	Arg	Asp	Ala	Val	Ala	Ser	Ala	Gln	Ala	Gln	Leu	Asp
			180					185					190		
Val	Ala	Ile	Gln	Gln	Tyr	Asn	Ala	Asn	Gln	Ala	Met	Val	Leu	Gly	Thr
		195				200						205			
Ser	Leu	Glu	Asn	Gln	Pro	Ala	Val	Lys	Gln	Ala	Ala	Thr	Glu	Val	Arg
	210					215					220				
Asn	Ala	Trp	Leu	Ala	Leu	Gln	Arg	Thr	Lys	Ile	Val	Ser	Pro	Met	Thr
225					230				235						240
Gly	Tyr	Val	Ser	Arg	Arg	Ser	Val	Gln	Pro	Gly	Ala	Gln	Ile	Ser	Thr
			245					250					255		
Thr	Thr	Pro	Leu	Met	Ala	Val	Val	Pro	Ala	Asn	Asn	Leu	Trp	Val	Asp
			260					265					270		
Ala	Asn	Phe	Lys	Glu	Thr	Gln	Leu	Ala	His	Met	Arg	Ile	Gly	Gln	Thr
		275					280					285			
Ala	Thr	Val	Val	Ser	Asp	Ile	Tyr	Gly	Asp	Asp	Ile	Lys	Tyr	Thr	Gly
	290					295					300				
Lys	Val	Val	Gly	Leu	Asp	Met	Gly	Thr	Gly	Ser	Ala	Phe	Ser	Leu	Leu
305					310					315					320
Pro	Ala	Gln	Asn	Ala	Thr	Gly	Asn	Trp	Ile	Lys	Val	Val	Gln	Arg	Leu

				325					330					335			
Pro	Val	Arg	Ile	Glu	Leu	Asp	Pro	Lys	Gln	Leu	Ala	Asp	His	Pro	Leu		
			340					345					350				
Arg	Ile	Gly	Leu	Ser	Thr	Leu	Val	Thr	Val	Asp	Thr	Ala	Asn	Arg	Asp		
		355					360					365					
Gly	Gln	Ile	Leu	Ala	Ser	Gln	Val	Arg	Ser	Thr	Pro	Ala	Tyr	Glu	Ser		
	370					375					380						
Asn	Ala	Arg	Glu	Ile	Ser	Leu	Asp	Pro	Val	Asn	Lys	Leu	Ile	Asp	Asp		
385					390					395					400		
Ile	Val	Lys	Ala	Asn	Ala	Gly											
				405													

<210> 7600

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 7600

Asn	Ala	Thr	Phe	Leu	Ser	Cys	Ser	Arg	Ser	Ser	Asp	Met	Phe	Ser	Pro		
1			5					10					15				
Gln	Ser	Arg	Leu	Arg	His	Ala	Val	Ala	Asp	Thr	Phe	Ala	Met	Val	Val		
		20						25				30					
Tyr	Cys	Ser	Val	Val	Asn	Met	Leu	Ile	Glu	Ile	Phe	Leu	Ser	Gly	Met		
	35					40					45						
Ser	Phe	Glu	Gln	Ser	Leu	Ser	Ser	Arg	Leu	Val	Ala	Ile	Pro	Val	Asn		
	50					55					60						
Ile	Met	Ile	Ala	Trp	Pro	Tyr	Gly	Leu	Tyr	Arg	Asp	Ala	Val	Met	Arg		
65				70					75						80		
Leu	Ala	Arg	Arg	Ile	Ser	Pro	Ala	Gly	Trp	Val	Lys	Asn	Leu	Ala	Asp		
		85						90					95				
Val	Leu	Ala	Tyr	Val	Thr	Phe	Gln	Ser	Pro	Val	Tyr	Val	Phe	Ile	Leu		
	100						105						110				
Leu	Thr	Val	Gly	Ala	Asp	Trp	His	Gln	Ile	Ala	Ala	Ala	Val	Ser	Ser		
	115					120						125					
Asn	Ile	Val	Val	Ser	Met	Leu	Met	Gly	Ala	Val	Tyr	Gly	Tyr	Phe	Leu		
	130				135						140						
Asp	Tyr	Cys	Arg	Arg	Leu	Phe	Lys	Val	Ser	Pro	Tyr	Ser	Gln	Ala	Lys		
145					150					155					160		
Ala																	

<210> 7601

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7601

Ser	Gly	Ala	Arg	Arg	Gly	Arg	His	Pro	Ala	Gly	Ala	Gly	Phe	Pro	Ser		
1			5					10					15				
Ala	Ser	Gly	Cys	Gly	Cys	Arg	Arg	His	Gln	Leu	Val	Trp	Leu	Pro	Ser		
	20							25				30					
Gly	His	Asp	Gln	Pro	Pro	Cys	Arg	Ser	Gly	Arg	Gln	Cys	Met	Ser	Thr		
	35					40					45						
Leu	Val	Tyr	Phe	Ser	Ser	Ser	Ser	Glu	Asn	Thr	Leu	Arg	Phe	Met	Glu		
	50				55						60						
Arg	Leu	Gly	Leu	Pro	Ala	Ile	Arg	Ile	Pro	Leu	Asn	Glu	Arg	Glu	Arg		
65				70					75						80		
Ile	Gln	Val	Asp	Glu	Pro	Tyr	Ile	Leu	Val	Val	Pro	Ser	Tyr	Gly	Gly		
	85					90							95				
Gly	Gly	Thr	Ala	Gly	Ala	Val	Pro	Arg	Gln	Val	Ile	Arg	Phe	Leu	Asn		
	100					105							110				


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<210> 7602
<211> 361
<212> PRT
<213> Enterobacter cloacae
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Ile	Ala	Arg	Gly	Gln	Thr	Met	Ala	Asp	Gln	Ser	Asn	Pro	Trp	Gly	Thr
1				5					10					15	
Thr	Glu	Ala	Ala	Asp	Ser	Ala	Ala	Gln	Ser	Ala	Asp	Ala	Trp	Gly	Ser
			20					25					30		
Thr	Pro	Ala	Pro	Ala	Asp	Gly	Gly	Gly	Ala	Ala	Asp	Trp	Leu	Asn	Ser
		35				40					45				
Ala	Pro	Ala	Pro	Ala	Pro	Glu	His	Phe	Asn	Ile	Met	Asp	Pro	Phe	His
	50					55				60					
Lys	Thr	Leu	Ile	Pro	Leu	Asp	Ser	Trp	Val	Thr	Glu	Gly	Ile	Asp	Trp
65				70					75					80	
Val	Val	Thr	His	Phe	Arg	Pro	Val	Phe	Gln	Gly	Ile	Arg	Ile	Pro	Val
			85					90					95		
Asp	Tyr	Ile	Leu	Asn	Gly	Phe	Gln	Gln	Leu	Met	Leu	Gly	Met	Pro	Ala
		100					105					110			
Pro	Val	Ala	Ile	Ile	Leu	Phe	Ser	Leu	Ile	Ala	Trp	Gln	Phe	Gly	Ser
		115				120					125				
Ala	Gly	Met	Gly	Ile	Ala	Thr	Leu	Ile	Ser	Leu	Ile	Ala	Ile	Gly	Ala
	130				135					140					
Ile	Gly	Ala	Trp	Ser	Gln	Ala	Met	Ile	Thr	Leu	Ala	Leu	Val	Leu	Thr
145				150				155						160	
Ala	Leu	Leu	Phe	Cys	Val	Val	Ile	Gly	Leu	Pro	Met	Gly	Ile	Trp	Leu
			165					170						175	
Ala	Arg	Ser	Pro	Arg	Ala	Ala	Lys	Ile	Ile	Arg	Pro	Leu	Leu	Asp	Ala
		180					185					190			
Met	Gln	Thr	Thr	Pro	Ala	Phe	Val	Tyr	Leu	Val	Pro	Ile	Val	Met	Leu
		195				200					205				
Phe	Gly	Ile	Gly	Asn	Val	Pro	Gly	Val	Val	Val	Thr	Ile	Ile	Phe	Ala
	210			215						220					
Leu	Pro	Pro	Ile	Ile	Arg	Leu	Thr	Ile	Leu	Gly	Ile	Asn	Gln	Val	Pro
225				230				235							240
Ala	Asp	Leu	Ile	Glu	Ala	Ser	Arg	Ser	Phe	Gly	Ala	Ser	Pro	Arg	Gln
			245					250						255	
Met	Leu	Phe	Lys	Val	Gln	Leu	Pro	Leu	Ala	Met	Pro	Thr	Ile	Met	Ala
		260				265						270			
Gly	Val	Asn	Gln	Thr	Leu	Met	Leu	Ala	Leu	Ser	Met	Val	Val	Ile	Ala
		275				280					285				
Ser	Met	Ile	Ala	Val	Gly	Gly	Leu	Gly	Gln	Met	Val	Leu	Arg	Gly	Ile
	290				295					300					
Gly	Arg	Leu	Asp	Met	Gly	Leu	Ala	Thr	Val	Gly	Gly	Val	Gly	Ile	Val
305				310					315					320	
Ile	Leu	Ala	Ile	Ile	Leu	Asp	Arg	Leu	Thr	Gln	Ala	Val	Gly	Arg	Asp
			325						330					335	
Ser	Arg	Ser	Arg	Gly	Asn	Arg	Arg	Trp	Tyr	Thr	Thr	Gly	Pro	Val	Gly
		340						345				350			

Leu Leu Thr Arg Pro Phe Thr Lys
 355 360

<210> 7603

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7603

Gly	Thr	Thr	Met	Arg	His	Asn	Val	Leu	Phe	Ala	Thr	Ala	Phe	Ala	Thr
1			5						10				15		
Leu	Val	Ser	Thr	Ser	Ala	Val	Ala	Ala	Asp	Leu	Pro	Gly	Lys	Gly	Ile
			20					25					30		
Thr	Val	Gln	Pro	Val	Gln	Ser	Thr	Ile	Ser	Glu	Glu	Ser	Phe	Gln	Thr
		35					40					45			
Gln	Ile	Val	Ser	Arg	Ala	Leu	Glu	Lys	Leu	Gly	Tyr	Thr	Val	Asn	Thr
	50					55					60				
Ala	Ser	Glu	Val	Asp	Tyr	Asn	Val	Gly	Tyr	Thr	Ser	Ile	Ala	Ser	Gly
65					70					75					80
Asp	Ala	Thr	Phe	Thr	Ala	Val	Asn	Trp	Gln	Pro	Leu	His	Asp	Asp	Met
				85					90					95	
Tyr	Ala	Ala	Ala	Gly	Gly	Asp	Lys	Lys	Phe	Tyr	Arg	Glu	Gly	Thr	Phe
			100					105					110		
Val	Thr	Gly	Ala	Ala	Gln	Gly	Tyr	Leu	Ile	Asp	Lys	Lys	Thr	Ala	Asp
		115					120					125			
Lys	Tyr	His	Ile	Thr	Asn	Ile	Glu	Gln	Leu	Lys	Asp	Pro	Lys	Ile	Ala
	130				135						140				
Lys	Leu	Phe	Asp	Thr	Asn	Gly	Asp	Gly	Lys	Ala	Asp	Met	Met	Gly	Cys
145					150					155					160
Ser	Pro	Gly	Trp	Gly	Cys	Glu	Ala	Val	Ile	Asn	His	Gln	Asn	Lys	Ala
				165					170					175	
Phe	Asp	Leu	Ala	Lys	Thr	Val	Asp	Val	Ser	His	Gly	Asn	Tyr	Ser	Ala
			180					185					190		
Met	Met	Ala	Asp	Thr	Ile	Ala	Arg	Phe	Lys	Glu	Gly	Lys	Pro	Val	Ile
		195					200					205			
Tyr	Tyr	Thr	Trp	Thr	Pro	Tyr	Trp	Val	Ser	Asp	Val	Leu	Lys	Pro	Gly
	210					215					220				
Lys	Asp	Val	Val	Trp	Leu	Gln	Val	Pro	Phe	Ser	Ser	Leu	Pro	Gly	Glu
225					230					235					240
Gln	Lys	Asp	Ile	Asp	Thr	Lys	Leu	Pro	Asn	Gly	Met	Asn	Tyr	Gly	Phe
				245					250					255	
Pro	Val	Asn	Thr	Met	His	Ile	Val	Ala	Asn	Lys	Ala	Trp	Ala	Glu	Lys
			260					265					270		
Asn	Pro	Ala	Ala	Ala	Lys	Leu	Phe	Ser	Val	Met	Lys	Leu	Pro	Leu	Ala
		275					280					285			
Asp	Ile	Asn	Ala	Gln	Asn	Ala	Met	Met	His	Ala	Gly	Lys	Ser	Ser	Glu
	290					295					300				
Ala	Asp	Ile	Lys	Gly	His	Val	Asp	Gly	Trp	Ile	Lys	Ala	His	Gln	Gln
305					310					315					320
Gln	Phe	Asp	Gly	Trp	Val	Lys	Glu	Ala	Leu	Glu	Ala	Gln	Lys		
				325					330				335		

<210> 7604

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7604

Arg	Gln	Thr	Pro	Val	Lys	Pro	Lys	Val	Ser	Val	Met	Gln	Gln	Gln	Lys
1				5					10				15		
Pro	Gln	Lys	Pro	Leu	Glu	Gly	Ala	Gln	Leu	Val	Ile	Met	Thr	Ile	Ala

			20					25					30		
Leu	Ser	Leu	Ala	Thr	Phe	Met	Gln	Val	Leu	Asp	Ser	Thr	Ile	Ala	Asn
		35					40					45			
Val	Ala	Ile	Pro	Thr	Ile	Ala	Gly	Asn	Leu	Gly	Ser	Ser	Leu	Ser	Gln
	50					55					60				
Gly	Thr	Trp	Val	Ile	Thr	Ser	Phe	Gly	Val	Ala	Asn	Ala	Ile	Ser	Ile
65					70					75					80
Pro	Ile	Thr	Gly	Trp	Leu	Ala	Lys	Arg	Val	Gly	Glu	Val	Lys	Leu	Phe
				85					90					95	
Leu	Trp	Ser	Thr	Ile	Leu	Phe	Val	Leu	Ala	Ser	Trp	Ala	Cys	Gly	Met
			100					105					110		
Ser	Ser	Ser	Leu	Thr	Met	Leu	Ile	Phe	Phe	Arg	Val	Ile	Gln	Gly	Ile
		115					120					125			
Val	Ala	Gly	Pro	Leu	Ile	Pro	Leu	Ser	Gln	Ser	Leu	Leu	Leu	Asn	Asn
	130					135					140				
Tyr	Pro	Pro	Ala	Lys	Arg	Ser	Ile	Ala	Leu	Ala	Leu	Trp	Ser	Met	Thr
145					150					155					160
Val	Ile	Val	Ala	Pro	Ile	Cys	Gly	Pro	Ile	Leu	Gly	Gly	Tyr	Ile	Ser
				165					170					175	
Asp	Asn	Tyr	His	Trp	Gly	Trp	Ile	Phe	Phe	Ile	Asn	Val	Pro	Ile	Gly
			180					185					190		
Ala	Leu	Val	Val	Leu	Met	Thr	Leu	Gln	Ser	Leu	Arg	Gly	Arg	Glu	Thr
		195					200					205			
Arg	Thr	Glu	Gln	Arg	Arg	Ile	Asp	Gly	Ile	Gly	Leu	Ala	Leu	Leu	Val
	210					215					220				
Val	Gly	Ile	Gly	Ser	Leu	Gln	Ile	Met	Leu	Asp	Arg	Gly	Lys	Glu	Leu
225					230					235					240
Asp	Trp	Phe	Ala	Ser	Thr	Glu	Ile	Ile	Val	Leu	Thr	Val	Val	Ala	Val
				245					250					255	
Val	Ala	Ile	Ser	Phe	Leu	Ile	Val	Trp	Glu	Leu	Thr	Asp	Asp	Asn	Pro
			260					265					270		
Ile	Val	Asp	Leu	Ser	Leu	Phe	Lys	Ser	Arg	Asn	Phe	Thr	Ile	Gly	Cys
		275					280					285			
Leu	Cys	Ile	Ser	Leu	Ala	Tyr	Met	Leu	Tyr	Phe	Gly	Ala	Ile	Val	Leu
	290					295					300				
Leu	Pro	Gln	Leu	Leu	Gln	Glu	Val	Tyr	Gly	Tyr	Thr	Ala	Thr	Trp	Ala
305					310					315					320
Gly	Leu	Ala	Ser	Ala	Pro	Val	Gly	Leu	Ile	Pro	Val	Leu	Leu	Ser	Pro
				325					330					335	
Ile	Ile	Gly	Arg	Phe	Ala	His	Lys	Leu	Asp	Met	Arg	Arg	Leu	Val	Thr
			340					345					350		
Phe	Ser	Phe	Ile	Met	Tyr	Ala	Val	Cys	Phe	Tyr	Trp	Arg	Ala	Tyr	Thr
		355					360					365			
Phe	Glu	Pro	Gly	Met	Asp	Phe	Gly	Ala	Ser	Ala	Trp	Pro	Gln	Phe	Ile
	370														

Lys Pro Pro Phe Gly Ala Gly Ser Gly Gly Gly Gly Ala His
 515 520 525

<210> 7605

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7605

Thr Gly Thr Gln Ile Met Glu Asp Arg Met Phe Asn Arg Pro Asn Arg
 1 5 10 15
 Asn Asp Ile Asn Asp Asp Thr Gln Asp Ile Arg Asn Asp Val Ser Gln
 20 25 30
 Leu Ala Asp Thr Leu Glu Ala Val Leu Lys Ser Trp Gly Ser Asp Ala
 35 40 45
 Lys Asp Glu Ala Asp Ala Ala Lys Arg Lys Ala Gln Ser Leu Leu Arg
 50 55 60
 Glu Thr Arg Ala Arg Met Asn Gly Arg Ser Arg Thr Thr Gln Ala Ala
 65 70 75 80
 Cys Asp Met Ala Ser Cys Ala Thr Thr Phe Val Arg Glu Lys Pro Leu
 85 90 95
 Cys Thr Leu Gly Thr Val Ala Ala Val Gly Ile Phe Val Gly Ala Leu
 100 105 110
 Leu Ser Leu Arg Lys
 115

<210> 7606

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 7606

Met Glu Met Arg Ile Met Ser Ile Ile Ile Tyr Thr Arg Asn Asp Cys
 1 5 10 15
 Val Gln Cys His Ala Thr Lys Arg Ala Met Glu Ser Arg Gly Val Ala
 20 25 30
 Phe Glu Met Val Asn Ile Asp Gln Val Pro Asp Ala Ala Asp Thr Leu
 35 40 45
 Arg Ala Gln Gly Phe Arg Gln Leu Pro Val Val Val Ala Gly Asp Thr
 50 55 60
 Ser Trp Ser Gly Phe Arg Pro Asp Met Ile Asn Arg Leu Ala Ala Gln
 65 70 75 80
 Gly Val Ser Ala
 85

<210> 7607

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 7607

His Thr Phe Gly Gly Tyr Asn Arg Thr Asn Asn Ser Phe Thr Leu Phe
 1 5 10 15
 Val Thr Val Val Thr Ile Ser Ala Val Ile Asn Glu Val Met Pro Lys
 20 25 30
 Met Asp Ser Ser Phe Thr Pro Ile Glu Gln Met Leu Lys Phe Arg Ala
 35 40 45
 Ser Arg His Glu Asp Phe Pro Tyr Gln Glu Ile Leu Leu Thr Arg Leu
 50 55 60
 Cys Met His Met Gln Gly Lys Leu Leu Glu Asn Arg Asn Lys Met Leu
 65 70 75 80

Lys Ala Gln Gly Ile Asn Glu Thr Leu Phe Met Ala Leu Ile Thr Leu
 85 90 95
 Glu Ser Gln Glu Asn His Ser Ile Gln Pro Ser Glu Leu Ser Cys Ala
 100 105 110
 Leu Gly Ser Ser Arg Thr Asn Ala Thr Arg Ile Ala Asp Glu Leu Glu
 115 120 125
 Lys Arg Gly Trp Ile Glu Arg Arg Glu Ser Asp Asn Asp Arg Arg Cys
 130 135 140
 Leu His Leu Gln Leu Thr Glu Lys Gly His Glu Phe Leu Arg Glu Val
 145 150 155 160
 Leu Pro Pro Gln His Asn Cys Leu His Gln Leu Trp Ser Ala Leu Ser
 165 170 175
 Thr Ala Glu Arg Asp Gln Leu Glu His Ile Thr Arg Lys Leu Thr
 180 185 190
 Arg Leu Asp Gln Met Asp Glu Asp Gly Val Ile Leu Glu Ala Leu Arg
 195 200 205

<210> 7608

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 7608

Asn Arg Phe Thr Ile Val Lys Arg Gln Gln Glu Arg Thr Met Leu Asn
 1 5 10 15
 Thr Pro Ala Asp Lys Tyr Gln Pro Tyr Pro Thr Leu Ser Leu Pro Asp
 20 25 30
 Arg Arg Trp Pro Glu Gln Ile Ile Thr Cys Ala Pro Arg Trp Leu Ser
 35 40 45
 Thr Asp Leu Arg Asp Gly Asn Gln Ala Leu Ala Glu Pro Met Asp Ser
 50 55 60
 Ala Arg Lys Leu Gln Phe Trp Asp Leu Leu Leu Thr Cys Gly Phe Lys
 65 70 75 80
 Glu Ile Glu Val Ala Phe Pro Ser Ala Ser Gln Thr Asp Phe Asn Phe
 85 90 95
 Val Arg Gln Leu Ile Glu Glu Asn Arg Ile Pro Asp Asp Val Thr Ile
 100 105 110
 Gln Val Leu Thr Gln Ala Arg Asp Asp Leu Ile His Arg Thr Phe Asp
 115 120 125
 Ser Leu Arg Gly Ala Lys Gln Ala Thr Val His Leu Tyr Asn Ala Thr
 130 135 140
 Ala Pro Leu Phe Arg Arg Leu Val Phe Gly Met Glu Lys Ala Gln Ile
 145 150 155 160
 Val Glu Leu Ala Thr Arg Ala Thr Arg Leu Ile Arg Gln Leu Cys Glu
 165 170 175
 Glu Asn Pro Asp Thr Arg Trp Gln Tyr Glu Tyr Ser Pro Glu Thr Phe
 180 185 190
 Cys Phe Thr Glu Pro Glu Phe Ala Leu Glu Ile Cys Glu Ala Val Ala
 195 200 205
 Glu Ile Trp Gln Pro Cys Ala Ala Arg Pro Met Ile Val Asn Leu Pro
 210 215 220
 Ala Thr Val Glu Val Ser Thr Pro Asn Val Tyr Ala Asp Gln Ile Glu
 225 230 235 240
 Tyr Phe Cys Arg His Phe Ser Arg Arg Ser Asp Val Cys Ile Ser Val
 245 250 255
 His Pro His Asn Asp Arg Gly Thr Gly Val Ala Ser Ala Glu Leu Ala
 260 265 270
 Val Met Ala Gly Ala Asp Arg Val Glu Gly Cys Leu Phe Gly Asn Gly
 275 280 285

Glu Arg Thr Gly Asn Val Cys Leu Val Thr Leu Ala Met Asn Leu Tyr
 290 295 300
 Ser Gln Gly Ile Ser Pro Asn Leu Asp Phe Ser Asp Met Asn Arg Val
 305 310 315 320
 Val Glu Thr Val Glu Thr Cys Asn Gln Leu Pro Val His Pro Arg His
 325 330 335
 Pro Trp Ala Gly Arg Leu Ala Tyr Thr Ala Phe Ser Gly Ser His Gln
 340 345 350
 Asp Ala Ile Lys Lys Gly Phe Asp Ala Arg Lys Pro Gly Glu Arg Trp
 355 360 365
 Glu Met Pro Tyr Leu Pro Val Asp Pro Gln Asp Ile Gly Cys Thr Tyr
 370 375 380
 Glu Ala Val Ile Arg Val Asn Ser Gln Ser Gly Lys Ser Gly Ser Ala
 385 390 395 400
 Trp Leu Ile Glu Gln Asn His Gly Leu Lys Leu Pro Arg Ala Leu Gln
 405 410 415
 Gln Asp Phe Ser Gln His Val Gln Gln Glu Thr Asp Asn His Gly Lys
 420 425 430
 Glu Met Thr Gln Asn Ala Leu Trp Gln Leu Phe Arg Ala Arg Tyr Gly
 435 440 445
 Leu Val Ala Ser Pro Pro Leu Ala Leu Gln Ser Tyr Arg Ser Asp Ser
 450 455 460
 Gln Gln Asp Gly Gln Leu Arg Leu Thr Ala Ser Val Ala Thr His Gly
 465 470 475 480
 Gly Thr Arg Gln Leu Glu Gly Gln Gly Asn Gly Leu Leu Ser Ala Ala
 485 490 495
 Ala His Gly Leu Ser Arg Trp Ile Asn Ala Ser Phe Val Ile Lys Asp
 500 505 510
 Tyr His Glu His Thr Leu Gly Glu Arg Ser Asp Ser Arg Ser Val Ala
 515 520 525
 Tyr Ile Arg Cys Leu Phe Gln Asp Gly Thr Ser Arg Trp Gly Val Gly
 530 535 540
 Ile Asp Ser Asp Val Ala Arg Ala Ser Ile Gln Ala Leu Phe Asn Ala
 545 550 555 560
 Val Ser Arg Ser
 565

<210> 7609

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7609

Ser Phe Ser Glu Ser Thr Met Tyr Ala Gln Tyr Asp Gly Leu Ile Phe
 1 5 10 15
 Asp Met Asp Gly Thr Leu Leu Asp Thr Glu Pro Thr His Arg Gln Ala
 20 25 30
 Trp Thr Glu Val Leu Gly Arg Tyr Gly Met Arg Phe Asp Leu Gln Ala
 35 40 45
 Met Ile Ala Leu Asn Gly Ser Pro Thr Trp Arg Ile Ala Gln Ala Val
 50 55 60
 Ile Glu Leu Asn Gln Ala Asp Leu Asp Pro His Gln Leu Ala Arg Glu
 65 70 75 80
 Lys Thr Asp Ala Val Lys Ala Met Leu Leu Asp Thr Val Gln Pro Leu
 85 90 95
 Pro Leu Ile Asp Val Val Lys Glu Trp His Gly Arg Arg Pro Met Ser
 100 105 110
 Val Gly Thr Gly Ser Glu Ser Ala Ile Ala Glu Ala Leu Leu Asn His
 115 120 125
 Leu Gly Pro Ala Pro Leu Phe Phe Cys Arg Arg Cys Arg Arg Ser Cys
 130 135 140

145

<210> 7610

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 7610

Cys	Arg	Asn	Gly	Gly	Gly	Gly	Arg	Ser	Leu	Thr	Val	Ser	Asp	Ala	Leu
1			5						10					15	
Ser	Leu	Ala	Ser	Leu	Phe	Ala	Ser	Ser	Phe	Leu	Ser	Ser	Thr	Leu	Leu
			20					25					30		
Pro	Gly	Asn	Ser	Glu	Val	Val	Leu	Val	Ala	Met	Leu	Leu	Ser	Gly	Val
		35					40					45			
Ser	Gln	Pro	Trp	Leu	Leu	Val	Leu	Ile	Ala	Thr	Met	Gly	Asn	Ser	Leu
	50					55					60				
Gly	Gly	Leu	Thr	Asn	Val	Ile	Leu	Gly	Arg	Phe	Phe	Pro	Leu	Arg	Glu
65				70					75					80	
Lys	Ser	Arg	Trp	Gln	Glu	Lys	Ala	Val	Gly	Trp	Leu	Lys	Arg	Tyr	Gly
				85					90					95	
Ala	Ala	Thr	Leu	Leu	Leu	Ser	Trp	Met	Pro	Val	Ile	Gly	Asp	Leu	Leu
			100					105					110		
Cys	Leu	Leu	Ala	Gly	Trp	Met	Arg	Ile	Ser	Trp	Gly	Pro	Val	Leu	Phe
		115					120					125			
Phe	Leu	Cys	Leu	Gly	Lys	Ala	Leu	Arg	Tyr	Val	Leu	Leu	Ala	Trp	Val
	130					135					140				
Thr	Leu	Gln	Gly	Ile	Thr	Trp	Trp	His							
145					150										

<210> 7611

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 7611

Cys	Ser	Cys	Lys	Gln	Gln	Arg	Arg	Ala	Gly	Pro	Ala	Lys	Arg	Lys	Thr
1			5						10					15	
Ser	Gly	Thr	Ala	His	Leu	Val	Ser	Cys	Leu	Trp	Met	Pro	Gly	Gly	Ala
			20					25					30		
Ser	Leu	Thr	Gly	Pro	Thr	Ile	Leu	Met	Thr	Thr	Thr	Thr	Thr	Phe	Ser
		35					40					45			
Phe	Thr	His	Arg	Pro	Leu	Val	Pro	Phe	Ser	His	Asp	Tyr	Ala	His	Gly
	50					55					60				
Asp	Ser	Glu	Pro	Trp	His	Gln	His	Asp	Cys	Ala	Gln	Leu	Leu	His	Ser
65				70					75					80	
Leu	Thr	Gly	Val	Val	Arg	Val	Asp	Thr	Ala	Ser	Gly	Cys	Trp	Val	Val
				85					90					95	
Pro	Pro	Gly	Arg	Gly	Val	Trp	Leu	Pro	Ala	Gly	Thr	Gln	His	Ala	Leu
			100					105					110		
Arg	Ile	Thr	Gly	Asn	Val	Ala	Ala	Arg	Thr	Leu	Phe	Ile	Asp	Pro	Leu
		115					120					125			
Ala	Arg	Ala	Asp	Leu	Pro	Ala	Thr	Cys	Gln	Ile	Val	Gln	Ile	Ser	Pro
	130					135					140				
Leu	Leu	Arg	Glu	Leu	Ile	Leu	Thr	Ser	Leu	Thr	Leu	Pro	Glu	Ser	Tyr
145				150					155					160	
Ala	Pro	Gly	Ser	Arg	Asp	Glu	Arg	Val	Tyr	Glu	Leu	Ile	Leu	Asp	Glu
				165					170					175	
Ile	Arg	Leu	Met	Pro	Val	Leu	Pro	Phe	His	Leu	Pro	Glu	Pro	Glu	Ser
		180						185					190		
Glu	Ala	Leu	Arg	His	Leu	Cys	Gln	Gln	Ile	Arg	Met	Ala	Pro	Gly	Glu

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<210> 7612
<211> 118
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7613
<211> 105
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 7614
<211> 173
<212> PRT
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<213> Enterobacter cloacae

<400> 7614

```

Arg Met Pro Leu Leu Asp Ser Phe Thr Val Asp His Thr Arg Met Glu
1      5      10      15
Ala Pro Ala Val Arg Val Ala Lys Thr Met Asn Thr Pro His Gly Asp
20      25      30
Thr Ile Thr Val Phe Asp Leu Arg Phe Cys Val Pro Asn Lys Glu Val
35      40      45
Met Pro Glu Lys Gly Ile His Thr Leu Glu His Leu Phe Ala Gly Phe
50      55      60
Met Arg Asp His Leu Asn Gly Asn Gly Val Glu Ile Ile Asp Ile Ser
65      70      75      80
Pro Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Gln Pro
85      90      95
Glu Glu Lys Arg Val Ala Asp Ala Trp Lys Ala Ala Met Glu Asp Val
100     105     110
Leu Lys Val Lys Glu Gln Asn Gln Ile Pro Glu Leu Asn Val Tyr Gln
115     120     125
Cys Gly Thr Tyr Gln Met His Ser Leu Glu Glu Ala Gln Glu Ile Ala
130     135     140
Arg His Ile Ile Glu Arg Asp Val Arg Val Asn Ser Asn Asp Glu Leu
145     150     155     160
Ala Leu Pro Lys Glu Lys Leu Gln Glu Leu His Ile
165     170

```

<210> 7615

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 7615

```

Gln Phe Phe Asp Arg Arg Glu Val Lys Leu Ile Pro Asp Val Ser Gln
1      5      10      15
Ala Leu Ala Trp Leu Glu Asn His Pro Gln Ala Leu Lys Gly Ile Gln
20      25      30
Arg Gly Leu Glu Arg Glu Thr Leu Arg Val Asn Ala Asp Gly Ser Leu
35      40      45
Ala Thr Thr Gly His Pro Lys Ala Leu Gly Ser Ala Leu Thr His Lys
50      55      60
Trp Ile Thr Thr Asp Phe Ala Glu Ala Leu Leu Glu Phe Ile Thr Pro
65      70      75      80
Val Asp Gly Asp Ile Asp His Met Leu Thr Ile Met Arg Asp Val His
85      90      95
Arg Phe Thr Ala Arg Asn Leu Gly Asp Glu Arg Met Trp Pro Leu Ser
100     105     110
Met Pro Cys Tyr Ile Glu Gln Gly Gln Asp Ile Glu Leu Ala Gln Tyr
115     120     125
Gly Thr Ser Asn Ile Gly Arg Leu Lys Thr Leu Tyr Arg Glu Gly Leu
130     135     140
Lys Asn Arg Tyr Gly Ala Leu Met Gln Thr Ile Ser Gly Val His Tyr
145     150     155     160
Asn Phe Ser Leu Pro Met Ala Phe Trp Gln Ala Lys Cys Gly Glu Thr
165     170     175
Asp Lys Glu Ala Ile Ser Ala Gly Tyr Phe Arg Leu Ile Arg Asn Tyr
180     185     190
Tyr Arg Phe Gly Trp Val Ile Pro Tyr Leu Phe Gly Ala Ser Pro Ala
195     200     205
Ile Cys Ser Ser Phe Leu Gln Gly Lys Pro Thr Thr Leu Pro Phe Glu
210     215     220
Lys Thr Glu Cys Gly Met Tyr Tyr Leu Pro Tyr Ala Thr Ser Leu Arg

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<210> 7616
<211> 119
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7617
 <211> 454
 <212> PRT
 <213> Enterobacter cloacae

<400> 7617

His	Glu	Val	Val	Met	Thr	Ser	Phe	Val	Val	Ala	Lys	Phe	Gly	Gly	Thr
1				5				10						15	
Ser	Val	Ala	Asp	Tyr	Asp	Ala	Met	Asn	Arg	Ser	Ala	Asp	Val	Val	Leu
			20					25					30		
Ala	Asp	Pro	Asn	Thr	Arg	Leu	Val	Val	Leu	Ser	Ala	Ser	Ala	Gly	Val
		35					40					45			
Thr	Asn	Leu	Leu	Val	Ser	Leu	Ser	Glu	Gly	Leu	Glu	Ala	Thr	Glu	Arg
	50					55					60				
Phe	Val	Lys	Leu	Asp	Ala	Leu	Arg	Lys	Ile	Gln	Phe	Asp	Ile	Leu	Glu
65				70					75					80	
Arg	Leu	Gln	Asn	Pro	Asn	Val	Ile	Arg	Glu	Glu	Val	Glu	Arg	Leu	Leu
			85						90					95	
Glu	Asn	Ile	Thr	Thr	Leu	Ala	Glu	Ala	Ala	Ser	Leu	Ala	Thr	Ser	Thr
			100					105					110		
Ala	Leu	Thr	Asp	Glu	Leu	Val	Ser	His	Gly	Glu	Leu	Met	Ser	Thr	Leu
		115					120					125			
Leu	Phe	Val	Glu	Ile	Met	Arg	Glu	Arg	Asn	Ile	Gln	Ala	Gln	Trp	Phe
	130					135					140				
Asp	Val	Arg	Lys	Val	Met	Arg	Thr	Ser	Asp	Arg	Phe	Gly	Arg	Ala	Glu
145					150					155					160
Pro	Asp	Val	Glu	Val	Leu	Ala	Glu	Leu	Thr	Asn	Gln	Gln	Leu	Ala	Pro
			165						170					175	
Arg	Leu	Asp	Glu	Gly	Ile	Val	Ile	Thr	Gln	Gly	Phe	Ile	Gly	Ser	Glu
		180						185					190		
Ala	Lys	Gly	Arg	Thr	Thr	Thr	Leu	Gly	Arg	Gly	Gly	Ser	Asp	Tyr	Thr
		195					200					205			
Ala	Ala	Leu	Leu	Gly	Glu	Ala	Leu	His	Ala	Thr	Arg	Val	Asp	Ile	Trp
		210				215					220				
Thr	Asp	Val	Pro	Gly	Ile	Tyr	Thr	Thr	Asp	Pro	Arg	Val	Val	Ser	Ala
225					230					235					240
Ala	Lys	Arg	Ile	Asp	Val	Ile	Ala	Phe	Glu	Glu	Ala	Ala	Glu	Met	Ala
			245						250					255	
Thr	Phe	Gly	Ala	Lys	Val	Leu	His	Pro	Ala	Thr	Leu	Leu	Pro	Ala	Val
		260					265						270		
Arg	Ser	Asp	Ile	Pro	Val	Phe	Val	Gly	Ser	Ser	Lys	Asp	Pro	Lys	Ala
		275					280					285			
Gly	Gly	Thr	Leu	Val	Cys	Lys	Lys	Thr	Glu	Asn	Pro	Pro	Leu	Phe	Arg
	290					295				300					
Ala	Leu	Ala	Leu	Arg	Arg	Lys	Gln	Thr	Leu	Val	Thr	Leu	His	Ser	His
305					310					315					320
Asn	Met	Leu	His	Ser	Arg	Gly	Phe	Leu	Ala	Glu	Val	Phe	Gly	Ile	Leu
			325						330					335	
Ala	Arg	His	Asn	Ile	Ser	Val	Asp	Leu	Ile	Thr	Thr	Ser	Glu	Val	Ser
			340					345					350		
Ile	Ala	Leu	Thr	Leu	Asp	Thr	Thr	Gly	Ser	Thr	Ser	Thr	Gly	Asp	Thr
		355					360						365		
Leu	Leu	Thr	Gln	Ser	Leu	Leu	Ile	Glu	Leu	Ser	Glu	Leu	Cys	Arg	Val
	370					375					380				
Glu	Val	Glu	Glu	Asp	Leu	Ala	Leu	Val	Ala	Ile	Ile	Gly	Asn	Lys	Leu
385					390					395					400
Ser	Arg	Ala	Cys	Gly	Val	Gly	Lys	Glu	Val	Phe	Gly	Val	Leu	Asp	Pro
			405						410					415	
Phe	Asn	Ile	Arg	Met	Ile	Cys	Tyr	Gly	Ala	Ser	Ser	Tyr	Asn	Leu	Cys
		420						425					430		
Phe	Leu	Val	Pro	Ala	Asp	Gln	Ala	Glu	Gln	Val	Val	Gln	Lys	Leu	His

435
Gln Asn Leu Phe Glu
450

440

445

<210> 7618
<211> 340
<212> PRT
<213> Enterobacter cloacae

<400> 7618

Thr	Ile	Ser	Ile	Ser	Arg	Ala	Gln	Thr	Arg	Leu	Phe	Tyr	Asn	Lys	Thr
1				5					10					15	
Thr	Arg	Gln	Tyr	Cys	Lys	Glu	Phe	Thr	Met	Leu	Ser	Ala	Ile	Thr	Arg
		20						25					30		
Leu	Phe	Pro	Leu	Trp	Ala	Leu	Leu	Leu	Ser	Val	Leu	Ala	Tyr	Tyr	Thr
		35				40						45			
Pro	Ala	Thr	Phe	Thr	Gly	Ile	Gly	Pro	Trp	Val	Thr	Thr	Leu	Leu	Met
	50				55					60					
Leu	Ile	Met	Phe	Gly	Met	Gly	Val	His	Leu	Lys	Ile	Asp	Asp	Phe	Lys
65				70					75						80
Arg	Val	Leu	Ser	Arg	Pro	Ala	Pro	Val	Ala	Gly	Ile	Phe	Leu	His	
			85					90					95		
Tyr	Leu	Val	Met	Pro	Leu	Ala	Ala	Trp	Leu	Leu	Ala	Met	Ala	Phe	Lys
		100						105					110		
Met	Pro	Pro	Asp	Leu	Ser	Ala	Gly	Met	Val	Leu	Val	Gly	Ser	Val	Ala
		115					120					125			
Ser	Gly	Thr	Ala	Ser	Asn	Val	Met	Ile	Tyr	Leu	Ala	Lys	Gly	Asp	Val
	130					135					140				
Ala	Leu	Ser	Val	Thr	Ile	Ser	Ser	Val	Ser	Thr	Leu	Val	Gly	Val	Ile
145					150					155					160
Ala	Thr	Pro	Leu	Leu	Thr	Arg	Leu	Tyr	Val	Asp	Ala	His	Ile	Gln	Val
			165					170						175	
Asp	Val	Met	Gly	Met	Leu	Leu	Ser	Ile	Leu	Gln	Ile	Val	Val	Ile	Pro
		180						185					190		
Ile	Ala	Leu	Gly	Leu	Val	Ile	His	His	Leu	Phe	Pro	Arg	Val	Val	Lys
	195					200						205			
Ala	Val	Glu	Pro	Tyr	Leu	Pro	Ala	Phe	Ser	Met	Ile	Cys	Ile	Leu	Ala
	210					215					220				
Ile	Ile	Ser	Ala	Val	Val	Ala	Gly	Ser	Ala	Ser	His	Ile	Ala	Ser	Val
225				230						235					240
Gly	Phe	Val	Val	Ile	Val	Ala	Val	Val	Leu	His	Asn	Thr	Ile	Gly	Leu
			245						250					255	
Leu	Gly	Gly	Tyr	Trp	Gly	Gly	Lys	Leu	Phe	Gly	Phe	Asp	Glu	Ser	Thr
		260						265					270		
Cys	Arg	Thr	Leu	Ala	Ile	Glu	Val	Gly	Met	Gln	Asn	Ser	Gly	Leu	Ala
		275					280					285			
Ala	Ala	Leu	Gly	Lys	Ile	Tyr	Phe	Ser	Pro	Leu	Ala	Ala	Leu	Pro	Gly
	290					295					300				
Ala	Leu	Phe	Ser	Val	Trp	His	Asn	Leu	Ser	Gly	Ser	Leu	Leu	Ala	Gly
305				310						315					320
Tyr	Trp	Ser	Gly	Lys	Pro	Ile	Asp	Asp	Gln	Pro	Lys	Lys	Asp	Ala	Val
			325						330					335	
Lys	Gln	Gly													

340

<210> 7619
<211> 311
<212> PRT
<213> Enterobacter cloacae

<400> 7619

His Glu Thr Cys Ser Leu Ser Leu Leu Arg Ser Val Arg Lys Ala Val
 1 5 10 15
 Ala Lys Pro Pro Asn Lys Thr Lys Met Ile Ser Thr Ile Gln Lys Lys
 20 25 30
 Glu Phe Val Met Val Thr Thr Val Pro Ala Lys Arg Gly Arg Lys Pro
 35 40 45
 Ala Ala Thr Thr Ala Ala Gln Pro Gly Gly Gln Val Gln Ser Leu Thr
 50 55 60
 Arg Gly Leu Lys Leu Leu Glu Trp Ile Ala Glu Ser His Gly Ser Val
 65 70 75 80
 Ala Leu Thr Glu Leu Ala Gln Gln Ala Gly Leu Pro Asn Ser Thr Thr
 85 90 95
 His Arg Leu Leu Thr Thr Met Gln Gln Leu Gly Phe Val Arg Gln Val
 100 105 110
 Gly Glu Leu Gly His Trp Ala Val Gly Ala His Ala Phe Ile Val Gly
 115 120 125
 Ser Ser Phe Leu Gln Ser Arg Asn Leu Leu Ala Ile Val His Pro Ile
 130 135 140
 Leu Arg Lys Leu Met Glu Glu Ser Gly Glu Thr Val Asn Leu Ala Val
 145 150 155 160
 Leu Asp Gln Ser Asp His Gln Ala Ile Ile Asp Gln Val Gln Cys
 165 170 175
 Thr Gln Leu Met Arg Met Ser Ala Pro Ile Gly Gly Lys Leu Pro Met
 180 185 190
 His Ala Ser Gly Ala Gly Lys Ala Phe Leu Ser Gln Leu Ser Glu Glu
 195 200 205
 Gln Val Thr Gly Leu Leu His Arg Lys Gly Leu His Ala Tyr Thr His
 210 215 220
 Ala Thr Leu Val Ser Pro Val His Leu Lys Glu Asp Leu Ala Leu Thr
 225 230 235 240
 Arg Lys Arg Gly Tyr Ser Phe Asp Asp Glu Glu His Ala Leu Gly Leu
 245 250 255
 Arg Cys Leu Ala Ser Cys Ile Phe Asp Glu His Arg Glu Pro Phe Ala
 260 265 270
 Ala Ile Ser Ile Ser Gly Pro Ile Ser Arg Met Thr Asp Asp Arg Val
 275 280 285
 Thr Glu Leu Gly Ala Met Val Ile Lys Ala Ala Lys Glu Val Thr Leu
 290 295 300
 Ala Tyr Gly Gly Ile Arg
 305 310

<210> 7620

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7620

Ile Thr Gly Ser Asn Met Lys Glu Ile Val Gln Thr Glu Ser Phe Arg
 1 5 10 15
 Arg Trp Glu Gln Asn Leu Lys Asp Arg Arg Ala Lys Thr Ile Ile Ala
 20 25 30
 Ser Arg Leu Phe Arg Leu Ala Asn Gly Leu Ala Gly Asp Ile Arg Pro
 35 40 45
 Val Gly Glu Gly Ile Ser Glu Leu Arg Ile His Phe Gly Pro Gly Tyr
 50 55 60
 Arg Val Tyr Phe Lys Asp Gln Gly Asn Cys Ile Ile Val Leu Leu Cys
 65 70 75 80
 Gly Gly Asp Lys Ser Ser Gln Ala Arg Asp Ile Leu Met Ala Lys Met
 85 90 95
 Leu Ser Asn Val Ser Gln Trp Gln Glu
 100 105

<210> 7621
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 7621

Met	Ser	Met	His	Lys	Leu	Thr	Pro	Tyr	Asp	Pro	Ala	Asn	Ala	Leu	Val
1				5					10					15	
Asp	Asp	Glu	Glu	Ile	Ala	Val	Phe	Met	Ala	Asp	Ala	Leu	Glu	Thr	Gly
		20						25					30		
Asp	Ser	Ala	Tyr	Ile	Ala	Lys	Ala	Leu	Gly	Val	Ile	Ala	Arg	Ala	Lys
		35					40					45			
Gly	Met	Ser	Thr	Ile	Ser	Gln	Gln	Thr	Gly	Leu	Ser	Arg	Glu	Gln	Leu
	50					55					60				
Tyr	Arg	Ser	Phe	Ser	Asp	Lys	Gly	Asn	Pro	Thr	Leu	Lys	Thr	Thr	Leu
65					70					75					80
Ala	Val	Met	Lys	Ala	Leu	Gly	Leu	Gly	Leu	Thr	Ile	Lys	Pro	Ser	Gly
				85					90					95	

Asp

<210> 7622
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 7622

Gly	Phe	Lys	Val	Met	Pro	Ile	Arg	Val	Gln	Asp	Glu	Leu	Pro	Ala	Val
1				5					10					15	
Asn	Phe	Leu	Arg	Glu	Glu	Asn	Val	Phe	Val	Met	Thr	Thr	Ser	Arg	Ala
		20						25					30		
Ser	Gly	Gln	Glu	Ile	Arg	Pro	Leu	Lys	Val	Leu	Ile	Leu	Asn	Leu	Met
		35					40					45			
Pro	Lys	Lys	Ile	Glu	Thr	Glu	Asn	Gln	Phe	Leu	Arg	Leu	Leu	Ser	Asn
	50					55					60				
Ser	Pro	Leu	Gln	Val	Asp	Ile	Gln	Leu	Leu	Arg	Ile	Asp	Ala	Arg	Glu
65					70					75					80
Ser	Arg	Asn	Thr	Pro	Ala	Glu	His	Leu	Asn	Asn	Phe	Tyr	Cys	Asn	Phe
				85					90					95	
Glu	Asp	Ile	Arg	Asp	Glu	Asn	Phe	Asp	Gly	Leu	Ile	Val	Thr	Gly	Ala
			100					105					110		
Pro	Leu	Gly	Leu	Val	Glu	Phe	Asn	Asp	Val	Ala	Tyr	Trp	Pro	Gln	Ile
		115					120					125			
Arg	Gln	Val	Leu	Glu	Trp	Ala	Lys	Asp	His	Val	Thr	Ser	Thr	Leu	Phe
	130					135					140				
Val	Cys	Trp	Ala	Val	Gln	Ala	Ala	Leu	Asn	Ile	Leu	Tyr	Gly	Ile	Pro
145					150					155					160
Lys	Gln	Thr	Arg	Ser	Asp	Lys	Leu	Ser	Gly	Val	Tyr	Glu	His	His	Ile
				165					170					175	
Leu	His	Pro	His	Ala	Leu	Leu	Thr	Arg	Gly	Phe	Asp	Asp	Thr	Phe	Leu
			180					185					190		
Ala	Pro	His	Ser	Arg	Tyr	Ala	Asp	Phe	Pro	Ala	Gln	Leu	Ile	Arg	Asp
		195					200					205			
Tyr	Thr	Asp	Leu	Glu	Ile	Leu	Ala	Glu	Thr	Glu	Asp	Gly	Asp	Ala	Tyr
	210					215					220				
Leu	Phe	Ala	Ser	Lys	Asp	Lys	Arg	Ile	Ala	Phe	Val	Thr	Gly	His	Pro
225					230					235					240
Glu	Tyr	Asp	Pro	His	Thr	Leu	Ala	Ala	Glu	Tyr	Phe	Arg	Asp	Val	Glu
				245					250					255	

Ala Gly Leu Asn Pro Asp Val Pro Tyr Asn Tyr Phe Pro Lys Asn Asp

			260					265				270			
Pro	Gln	Asn	Thr	Pro	Arg	Ala	Thr	Trp	Arg	Ser	His	Gly	Asn	Leu	Leu
		275					280					285			
Phe	Thr	Asn	Trp	Leu	Asn	Tyr	Tyr	Val	Tyr	Gln	Ile	Thr	Pro	Tyr	Asp
		290				295					300				
Leu	Arg	His	Met	Asn	Pro	Thr	Leu	Glu							
305					310										

<210> 7623

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7623

Pro	Cys	Arg	Ala	Thr	Ala	Ser	Trp	Arg	Asn	Ser	Pro	His	Asn	Asn	Met
1				5					10					15	
Glu	His	Leu	His	Met	Lys	Thr	Arg	Thr	Gln	Gln	Ile	Glu	Glu	Leu	Gln
			20					25					30		
Lys	Glu	Trp	Thr	Gln	Pro	Arg	Trp	Glu	Gly	Ile	Arg	Arg	Pro	Tyr	Ser
		35					40					45			
Ala	Glu	Glu	Val	Val	Lys	Leu	Arg	Gly	Ser	Val	Asn	Pro	Glu	Cys	Thr
		50				55					60				
Leu	Ala	Gln	Asn	Gly	Ala	Ala	Lys	Met	Trp	Asp	Leu	Leu	His	Gly	Gly
65				70						75					80
Ala	Lys	Lys	Gly	Tyr	Ile	Asn	Ser	Leu	Gly	Ala	Leu	Thr	Gly	Gly	Gln
			85						90					95	
Ala	Leu	Gln	Gln	Ala	Lys	Ala	Gly	Ile	Glu	Ala	Ile	Tyr	Leu	Ser	Gly
			100					105					110		
Trp	Gln	Val	Ala	Ala	Asp	Ala	Asn	Leu	Ala	Ser	Ser	Met	Tyr	Pro	Asp
		115					120					125			
Gln	Ser	Leu	Tyr	Pro	Ala	Asn	Ser	Val	Pro	Ser	Val	Val	Asp	Arg	Ile
		130				135					140				
Asn	Asn	Thr	Phe	Arg	Arg	Ala	Asp	Gln	Ile	Gln	Trp	Ala	Ala	Gly	Ile
145				150						155					160
Glu	Pro	His	Asp	Pro	Arg	Phe	Ile	Asp	Tyr	Phe	Leu	Pro	Ile	Val	Ala
			165						170					175	
Asp	Ala	Glu	Ala	Gly	Phe	Gly	Gly	Val	Leu	Asn	Ala	Phe	Glu	Leu	Met
			180					185					190		
Lys	Ser	Met	Ile	Glu	Ala	Gly	Ala	Ala	Val	His	Phe	Glu	Asp	Gln	
		195					200				205				
Leu	Ala	Ser	Val	Lys	Lys	Cys	Gly	His	Met	Gly	Gly	Lys	Val	Leu	Val
		210				215					220				
Pro	Thr	Gln	Glu	Ala	Ile	Gln	Lys	Leu	Val	Ala	Ala	Arg	Leu	Ala	Ala
225				230						235					240
Asp	Val	Leu	Gly	Val	Pro	Thr	Leu	Val	Ile	Ala	Arg	Thr	Asp	Ala	Asp
			245						250					255	
Ala	Ala	Asp	Leu	Ile	Thr	Ser	Asp	Cys	Asp	Pro	Tyr	Asp	Ser	Glu	Phe
			260					265					270		
Ile	Thr	Gly	Glu	Arg	Thr	Ser	Glu	Gly	Phe	Tyr	Arg	Thr	His	Ala	Gly
		275					280					285			
Ile	Glu	Gln	Ala	Ile	Ser	Arg	Gly	Leu	Ala	Tyr	Ala	Pro	Tyr	Ala	Asp
		290				295					300				
Leu	Val	Trp	Cys	Glu	Thr	Ser	Thr	Pro	Asp	Leu	Ala	Leu	Ala	Lys	Arg
305				310						315					320
Phe	Ala	Asp	Ala	Ile	His	Ala	Lys	Tyr	Pro	Gly	Lys	Leu	Leu	Ala	Tyr
			325						330					335	
Asn	Cys	Ser	Pro	Ser	Phe	Asn	Trp	Gln	Lys	Asn	Leu	Asp	Asp	Thr	Thr
			340					345					350		
Ile	Ala	Ser	Phe	Gln	Gln	Gln	Leu	Ser	Asp	Met	Gly	Tyr	Lys	Tyr	Gln
		355				360						365			
Phe	Ile	Thr	Leu	Ala	Gly	Ile	His	Ser	Met	Trp	Phe	Asn	Met	Phe	Asp

370	375	380
Leu Ala His Ala Tyr	Ala Gln Gly Glu Gly Met Lys His Tyr Val Glu	
385	390	395
Lys Val Gln Gln Pro	Glu Phe Ala Ala Gly Lys Glu Gly Tyr Thr Phe	400
	405	410
Val Ser His Gln Gln Glu Val Gly Thr Gly Tyr Phe Asp Asn Val Thr		415
	420	425
Thr Ile Ile Gln Gly Gly Ala Ser Ser Val Thr Ala Leu Thr Gly Ser		430
	435	440
Thr Glu Glu Ala Gln Phe		445
450	455	

<210> 7624

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7624

Ser Phe Pro Pro	Leu Pro Pro Arg Gly Glu Gly Trp Gly Glu Gly Glu	
1	5	10
Tyr Met Ser Arg	Gly Leu Glu Leu Ile Ala Gln Thr Ile Leu Gln	15
	20	25
Gly Phe Asp Ala	Gln Tyr Gly Arg Phe Leu Glu Val Thr Ser Gly Ala	30
	35	40
Gln Gln Arg Phe	Glu His Ala Asp Trp His Ala Val Gln Gln Ala Met	45
	50	55
Lys Gln Arg Ile	His Leu Tyr Asp His His Val Gly Leu Val Val Glu	60
65	70	75
Gln Leu Arg Cys	Ile Thr Asp Gly Lys Ser Pro Asp Ala Asp Phe Leu	80
	85	90
Leu Arg Val Lys	Glu His Tyr Thr His Leu Leu Pro Asp Tyr Pro Arg	95
	100	105
Phe Glu Ile Ala	Glu Ser Phe Phe Asn Ser Val Tyr Cys Arg Leu Phe	110
	115	120
Asp His Arg Ser	Leu Ser Pro Glu Arg Leu Phe Ile Phe Ser Ser Gln	125
	130	135
Pro Glu Arg Arg	Phe Arg Thr Ile Pro Arg Pro Leu Ala Lys Asp Phe	140
145	150	155
Phe Pro Asp Arg	Gly Trp Glu Lys Leu Leu His Arg Val Leu Thr Asp	160
	165	170
Leu Pro Leu Arg	Leu Pro Trp Glu Asn Lys Pro Arg Asp Ile Gly Tyr	175
	180	185
Ile His Ala Tyr	Leu Ser Glu Thr Phe Gly Glu Glu Val Leu Ser Arg	190
	195	200
Ser His Leu Gln	Val Ala Asn Glu Leu Phe Tyr Arg Asn Lys Ala Ala	205
	210	215
Trp Leu Val Gly	Lys Leu Val Thr Pro Thr Ala Ile Val Pro Phe Leu	220
225	230	235
Leu Pro Ile His	Arg Thr Asp Asp Gly Glu Leu Phe Val Asp Thr Cys	240
	245	250
Leu Thr Thr Ser	Ala Glu Ala Ser Ile Val Phe Gly Phe Ala Arg Ser	255
	260	265
Tyr Phe Met Val	Tyr Ala Pro Leu Pro Ala Ala Leu Val Glu Trp Leu	270
	275	280
Arg Glu Ile Leu	Pro Gly Lys Thr Thr Ala Glu Leu Tyr Met Ala Ile	285
	290	295
Gly Cys Gln Lys	His Ala Lys Thr Glu Ser Tyr Arg Glu Tyr Leu Arg	300
305	310	315
Tyr Val Thr Thr	Ala Asp Glu Gln Phe Ile Glu Ala Pro Gly Ile Arg	320
	325	330
Gly Met Val Met	Leu Val Phe Thr Leu Pro Gly Phe Asp Arg Val Phe	335


```
<210> 7625
<211> 1234
<212> PRT
<213> Enterobacter cloacae
```

<400> 7625															
Ala	Leu	Ser	Gly	Ala	Ser	Val	Ser	Ser	Lys	Val	Glu	Gln	Leu	Arg	Ala
1				5					10					15	
Gln	Leu	Asn	Glu	Arg	Ile	Leu	Val	Leu	Asp	Gly	Gly	Met	Gly	Thr	Met
			20					25					30		
Ile	Gln	Gly	Tyr	Arg	Leu	Cys	Glu	Asp	Asp	Phe	Arg	Gly	Glu	Arg	Phe
		35					40					45			
Ala	Asp	Trp	Pro	Cys	Asp	Leu	Lys	Gly	Asn	Asn	Asp	Leu	Leu	Val	Leu
	50					55					60				
Ser	Lys	Pro	Ser	Val	Ile	Arg	Asp	Ile	His	Asn	Ala	Tyr	Phe	Glu	Ala
65				70					75					80	
Gly	Ala	Asp	Ile	Val	Glu	Thr	Asn	Thr	Phe	Asn	Ser	Thr	Thr	Ile	Ala
			85						90					95	
Met	Ala	Asp	Tyr	Gln	Met	Glu	Ser	Leu	Ser	Ala	Glu	Ile	Asn	Phe	Glu
			100					105					110		
Ala	Ala	Lys	Leu	Ala	Arg	Ala	Cys	Ala	Asp	Glu	Trp	Thr	Ala	Arg	Thr
		115					120					125			
Pro	Asp	Lys	Pro	Arg	Tyr	Val	Ala	Gly	Val	Leu	Gly	Pro	Thr	Asn	Arg
	130					135					140				
Thr	Ala	Ser	Ile	Ser	Pro	Asp	Val	Asn	Asp	Pro	Ala	Phe	Arg	Asn	Ile
145				150					155					160	
Thr	Phe	Asp	Gln	Leu	Val	Ala	Ala	Tyr	Arg	Glu	Ser	Thr	Lys	Ala	Leu

				165					170					175			
Val	Glu	Gly	Gly	Ser	Asp	Leu	Ile	Leu	Ile	Glu	Thr	Val	Phe	Asp	Thr		
			180						185				190				
Leu	Asn	Ala	Lys	Ala	Ala	Ile	Tyr	Ala	Val	Lys	Glu	Glu	Phe	Glu	Ser		
		195					200					205					
Leu	Gly	Val	Asp	Leu	Pro	Ile	Met	Ile	Ser	Gly	Thr	Ile	Thr	Asp	Ala		
	210					215					220						
Ser	Gly	Arg	Thr	Leu	Ser	Gly	Gln	Thr	Thr	Glu	Ala	Phe	Tyr	Asn	Ser		
225					230					235					240		
Leu	Arg	His	Ala	Glu	Ala	Leu	Ser	Phe	Gly	Leu	Asn	Cys	Ala	Leu	Gly		
				245					250					255			
Pro	Asp	Glu	Leu	Arg	Gln	Tyr	Val	Gln	Glu	Leu	Ser	Arg	Ile	Ala	Glu		
		260						265					270				
Cys	Tyr	Val	Thr	Ala	His	Pro	Asn	Ala	Gly	Leu	Pro	Asn	Ala	Phe	Gly		
		275					280					285					
Glu	Tyr	Asp	Leu	Asp	Ala	Asp	Thr	Met	Ala	Ala	Gln	Ile	Arg	Glu	Trp		
	290					295					300						
Ala	Glu	Ser	Gly	Phe	Leu	Asn	Ile	Val	Gly	Gly	Cys	Cys	Gly	Thr	Thr		
305					310					315					320		
Pro	Glu	His	Ile	Ala	Ala	Met	Ser	Asn	Ala	Val	Ala	Gly	Leu	Pro	Pro		
				325					330					335			
Arg	Lys	Leu	Pro	Glu	Leu	Pro	Val	Ala	Cys	Arg	Leu	Ser	Gly	Leu	Glu		
			340					345					350				
Pro	Leu	Thr	Ile	Gly	Asp	Asp	Ser	Leu	Phe	Val	Asn	Val	Gly	Glu	Arg		
		355					360					365					
Thr	Asn	Val	Thr	Gly	Ser	Ala	Lys	Phe	Lys	Arg	Leu	Ile	Lys	Glu	Glu		
	370					375					380						
Lys	Tyr	Ser	Glu	Ala	Leu	Asp	Val	Ala	Arg	Gln	Gln	Val	Glu	Ser	Gly		
385					390					395					400		
Ala	Gln	Ile	Ile	Asp	Ile	Asn	Met	Asp	Glu	Gly	Met	Leu	Asp	Ala	Glu		
				405					410					415			
Ala	Ala	Met	Val	Arg	Phe	Leu	Asn	Leu	Ile	Ala	Gly	Glu	Pro	Asp	Ile		
			420					425					430				
Ala	Arg	Val	Pro	Ile	Met	Ile	Asp	Ser	Ser	Lys	Trp	Asp	Val	Ile	Glu		
		435					440					445					
Lys	Gly	Leu	Lys	Cys	Ile	Gln	Gly	Lys	Gly	Ile	Val	Asn	Ser	Ile	Ser		
	450					455					460						
Met	Lys	Glu	Gly	Val	Asp	Thr	Phe	Ile	His	His	Ala	Lys	Leu	Val	Arg		
465					470					475					480		
Arg	Tyr	Gly	Ala	Ala	Val	Val	Val	Met	Ala	Phe	Asp	Glu	Val	Gly	Gln		
				485					490					495			
Ala	Asp	Thr	Arg	Glu	Arg	Lys	Ile	Glu	Ile	Cys	Arg	Arg	Ala	Tyr	Lys		
			500					505					510				
Ile	Leu	Thr	Glu	Glu	Val	Gly	Phe	Pro	Pro	Glu	Asp	Ile	Ile	Phe	Asp		
		515															

Gln	Ala	Glu	Trp	Arg	Ser	Trp	Asp	Val	Asn	Lys	Arg	Leu	Glu	Tyr	Ser
			660					665					670		
Leu	Val	Lys	Gly	Ile	Thr	Glu	Phe	Ile	Glu	Gln	Asp	Thr	Glu	Glu	Ala
		675					680					685			
Arg	Gln	Gln	Ala	Ala	Arg	Pro	Ile	Glu	Val	Ile	Glu	Gly	Pro	Leu	Met
	690					695					700				
Asp	Gly	Met	Asn	Val	Val	Gly	Asp	Leu	Phe	Gly	Glu	Gly	Lys	Met	Phe
705				710						715					720
Leu	Pro	Gln	Val	Val	Lys	Ser	Ala	Arg	Val	Met	Lys	Gln	Ala	Val	Ala
			725						730					735	
Tyr	Leu	Glu	Pro	Phe	Ile	Glu	Ala	Ser	Lys	Glu	Lys	Gly	Ser	Ser	Asn
			740					745					750		
Gly	Lys	Met	Val	Ile	Ala	Thr	Val	Lys	Gly	Asp	Val	His	Asp	Ile	Gly
		755					760					765			
Lys	Asn	Ile	Val	Gly	Val	Val	Leu	Gln	Cys	Asn	Asn	Tyr	Glu	Ile	Ile
	770					775					780				
Asp	Leu	Gly	Val	Met	Val	Pro	Ala	Asp	Lys	Ile	Leu	Arg	Thr	Ala	Arg
785				790						795					800
Glu	Val	Asn	Ala	Asp	Leu	Ile	Gly	Leu	Ser	Gly	Leu	Ile	Thr	Pro	Ser
			805					810						815	
Leu	Asp	Glu	Met	Val	Asn	Val	Ala	Lys	Glu	Met	Glu	Arg	Gln	Gly	Phe
			820					825					830		
Thr	Ile	Pro	Leu	Leu	Ile	Gly	Gly	Ala	Thr	Thr	Ser	Lys	Ala	His	Thr
		835					840					845			
Ala	Val	Lys	Ile	Glu	Gln	Asn	Tyr	Ser	Gly	Pro	Thr	Val	Tyr	Val	Gln
	850					855					860				
Asn	Ala	Ser	Arg	Thr	Val	Gly	Val	Val	Ser	Ala	Leu	Leu	Ser	Asp	Thr
865				870						875					880
Gln	Arg	Asp	Asp	Phe	Val	Ala	Arg	Thr	Arg	Lys	Glu	Tyr	Glu	Thr	Val
			885					890						895	
Arg	Ile	Gln	His	Gly	Arg	Lys	Lys	Pro	Arg	Thr	Pro	Pro	Val	Ser	Leu
		900						905					910		
Gln	Ala	Ala	Arg	Glu	Asn	Asp	Leu	Ala	Phe	Asp	Trp	Ser	Ser	Tyr	Thr
	915						920					925			
Pro	Pro	Val	Ala	His	Arg	Leu	Gly	Val	Gln	Asp	Val	Thr	Ala	Ser	Ile
	930					935					940				
Glu	Thr	Leu	Arg	Asn	Tyr	Ile	Asp	Trp	Thr	Pro	Phe	Phe	Met	Thr	Trp
945				950						955					960
Ser	Leu	Ala	Gly	Lys	Tyr	Pro	Arg	Ile	Leu	Glu	Asp	Glu	Val	Val	Gly
			965						970					975	
Glu	Glu	Ala	Lys	Arg	Leu	Phe	Lys	Asp	Ala	Asn	Asp	Met	Leu	Asp	Arg
		980					985						990		
Leu	Ser	Ala	Glu	Lys	Ala	Leu	Asn	Pro	Arg	Gly	Val	Val	Gly	Leu	Phe
		995					1000					1005			
Pro	Ala	Asn	Arg	Val	Gly	Asp	Asp	Val	Glu	Ile	Tyr	Arg	Asp	Glu	Thr
	1010					1015					1020				
Arg	Thr	His	Val	Leu	Ala	Val	Ser	His	His	Leu	Arg	Gln	Gln	Thr	Glu
1025				1030						1035					1040
Lys	Val	Gly	Phe	Ala	Asn	Tyr	Cys	Leu	Ala	Asp	Phe	Val	Ala	Pro	Lys
			1045						1050					1055	
Leu	Ser	Gly	Lys	Ala	Asp	Tyr	Ile	Gly	Ala	Phe	Ala	Val	Thr	Gly	Gly
		1060						1065					1070		
Leu	Glu	Glu	Asp	Ala	Leu	Ala	Asp	Ala	Tyr	Asp	Ala	Gln	His	Asp	Asp
		1075					1080					1085			
Tyr	Asn	Lys	Ile	Met	Val	Lys	Ala	Ile	Ala	Asp	Arg	Leu	Ala	Glu	Ala
	1090					1095					1100				
Phe	Ala	Glu	Tyr	Leu	His	Glu	Arg	Val	Arg	Lys	Val	His	Trp	Gly	Tyr
1105				1110						1115					1120
Ala	Ala	Asn	Glu	Asn	Leu	Ser	Asn	Glu	Glu	Leu	Ile	Arg	Glu	Asn	Tyr
			1125						1130					1135	
Gln	Gly	Ile	Arg	Pro	Ala	Pro	Gly	Tyr	Pro	Ala	Cys	Pro	Glu	His	Thr

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<211> 318
<212> PRT
<213> Enterobacter cloacae
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Leu	Arg	Tyr	Ile 20	Ser	Pro	Phe	Thr	Gly 25	Glu	Thr	Met	Leu	Pro 30	Thr	Gln
Ser	Thr	Arg 35	Leu	Asn	Lys	Tyr 40	Ile	Ser	Glu	Ser	Gly 45	Ile	Cys	Ser	Arg
Arg	Glu 50	Ala	Asp	Arg	Tyr 55	Ile	Glu	Gln	Gly	Asn 60	Val	Phe	Leu	Asn	Gly
Lys 65	Arg	Ala	Thr	Ile 70	Gly	Asp	Gln	Val	Val	Pro 75	Gly	Asp	Val	Val	Lys 80
Val	Asn	Gly	Gln 85	Val	Ile	Glu	Pro	Arg	Asp 90	Ala	Glu	Asp	Leu	Val	Phe 95
Ile	Ala	Leu 100	Asn	Lys	Pro	Val	Gly 105	Ile	Val	Ser	Thr	Thr 110	Glu	Asp	Gly
Glu	Arg	Asp 115	Asn	Ile	Val	Asp	Phe 120	Val	Asn	His	Ser	Ser 125	Arg	Ile	Phe
Pro	Ile 130	Gly	Arg	Leu	Asp	Lys 135	Asp	Ser	Gln	Gly	Leu 140	Ile	Phe	Leu	Thr
Asn 145	His	Gly	Asp	Leu 150	Val	Asn	Lys	Ile	Leu	Arg 155	Ala	Gly	Asn	Asp	His 160
Glu	Lys	Glu	Tyr 165	Val	Thr	Val	Asn	Lys 170	Pro	Val	Thr	Asp	Glu	Phe 175	
Ile	Arg	Gly 180	Met	Gly	Ala	Gly	Val 185	Pro	Ile	Leu	Gly	Thr 190	Val	Thr	Lys
Lys	Cys 195	Lys	Val	Arg	Lys	Glu	Ala 200	Pro	Phe	Ala	Phe	Arg 205	Ile	Thr	Leu
Val	Gln 210	Gly	Leu	Asn	Arg	Gln 215	Ile	Arg	Arg	Met	Cys 220	Glu	Tyr	Phe	Gly
Tyr 225	Glu	Val	Thr	Lys 230	Leu	Glu	Arg	Thr	Arg	Ile 235	Met	Asn	Val	Ser	Leu
Ser	Gly	Ile	Pro 245	Leu	Gly	Glu	Trp	Arg	Asp 250	Leu	Thr	Asp	Asp	Glu	Leu
Ile	Glu	Leu 260	Phe	Lys	Leu	Ile	Glu 265	Asn	Ser	Ser	Ser	Glu 270	Ala	Lys	Pro
Lys	Ala 275	Lys	Ala	Lys	Pro	Lys	Thr 280	Gln	Thr	Ile	Lys	Arg 285	Pro	Val	Val
Lys	Ala 290	Pro	Gln	Ala	Glu	Glu 295	Lys	Gly	Arg	Gly	Lys 300	Pro	Gly	Asn	Gly
Lys 305	Arg	Phe	Thr	Gln 310	Pro	Gly	Arg	Lys	Lys	Lys 315	Gly	Arg			

<210> 7627

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 7627

Lys	Ser	Ile	Thr	Pro	Ile	Cys	Tyr	Pro	Thr	Thr	Arg	Ala	Ser	Arg	Leu
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Arg	Arg	Ala	Phe	Ser	Thr	Pro	Ser	Ile	Ala	Gly	Tyr	Leu	Thr	Thr	Ala
		20						25					30		
His	Tyr	Leu	Ser	Gly	Tyr	Leu	Ser	Ser	Ala	Pro	Ser	Arg	Ser	Ala	
	35					40					45				
Ala	Ser	Val	Pro	Phe	Arg	Val	Arg	Trp	Arg	Lys	Ile	Ser	Phe	Pro	Ile
	50					55					60				
Ala	Ala	Gly	Lys	Ser	Ser	Cys	Thr	Val	Ser						
65					70					75					

<210> 7628

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 7628

Phe	Gly	Ser	Leu	Met	Arg	Ser	Arg	Thr	Met	Thr	Gln	Gln	Ala	Thr	Thr
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Val	Asp	Glu	Leu	Thr	Phe	Thr	Gln	Pro	Asn	Gly	Glu	Gln	Glu	Gln	Gln
		20						25					30		
Val	Leu	Thr	Ala	Glu	Ala	Val	Glu	Phe	Leu	Thr	Glu	Leu	Val	Thr	Arg
	35						40					45			
Phe	Thr	Pro	Gln	Arg	Asn	Lys	Leu	Leu	Ala	Ala	Arg	Ile	His	Gln	Gln
	50					55					60				
Gln	Gly	Ile	Asp	Asn	Gly	Lys	Leu	Pro	Gly	Phe	Ile	Ser	Glu	Thr	Ala
65					70					75					80
Ser	Ile	Arg	His	Gly	Asp	Trp	Lys	Ile	Arg	Gly	Ile	Pro	Glu	Asp	Leu
				85					90					95	
Gln	Asp	Arg	Arg	Val	Glu	Ile	Thr	Gly	Pro	Val	Glu	Arg	Lys	Met	Val
			100					105					110		
Ile	Asn	Ala	Met	Asn	Ala	Asn	Val	Lys	Val	Phe	Met	Ala	Asp	Phe	Glu
	115						120					125			
Asp	Ser	Leu	Ala	Pro	Asp	Trp	Gln	Lys	Val	Ile	Asp	Gly	Gln	Ile	Asn
	130					135					140				
Leu	Arg	Asp	Ala	Val	Asn	Gly	Thr	Ile	Ser	Tyr	Thr	Asn	Glu	Ala	Gly
145					150					155					160
Lys	Ile	Tyr	Gln	Leu	Lys	Pro	Asn	Pro	Ala	Val	Leu	Ile	Cys	Arg	Val
			165						170					175	
Arg	Gly	Leu	His	Leu	Pro	Glu	Lys	His	Val	Thr	Trp	Arg	Gly	Glu	Ala
		180						185					190		
Ile	Pro	Gly	Ser	Leu	Phe	Asp	Phe	Ala	Leu	Tyr	Phe	Phe	His	Asn	His
	195						200					205			
Lys	Asn	Leu	Leu	Ala	Lys	Gly	Ser	Gly	Pro	Tyr	Phe	Tyr	Leu	Pro	Lys
	210					215					220				
Thr	Gln	Ser	Trp	Gln	Glu	Ala	Ala	Trp	Trp	Ser	Glu	Val	Phe	Ser	Tyr
225					230					235					240
Ala	Glu	Asp	Arg	Phe	Ser	Leu	Pro	Arg	Gly	Thr	Ile	Lys	Ala	Thr	Leu
			245						250					255	
Leu	Ile	Glu	Thr	Leu	Pro	Ala	Val	Phe	Gln	Met	His	Glu	Ile	Leu	His
		260						265					270		
Ala	Leu	Arg	Asp	His	Ile	Val	Gly	Leu	Asn	Cys	Gly	Arg	Trp	Asp	Tyr
	275						280					285			
Ile	Phe	Ser	Tyr	Ile	Lys	Thr	Leu	Lys	Asn	His	Ala	Asp	Arg	Val	Leu
290						295					300				

Pro Asp Arg Gln Val Val Thr Met Asp Lys Pro Phe Leu Ser Ala Tyr
 305 310 315 320
 Ser Arg Leu Leu Ile Lys Thr Cys His Lys Arg Gly Ala Phe Ala Met
 325 330 335
 Gly Gly Met Ala Ala Phe Ile Pro Ser Lys Asp Ala Glu Arg Asn Asn
 340 345 350
 His Val Leu Asn Lys Val Lys Ala Asp Lys Glu Leu Glu Ala Arg Asn
 355 360 365
 Gly His Asp Gly Thr Trp Ile Ala His Pro Gly Leu Ala Asp Thr Ala
 370 375 380
 Met Glu Val Phe Asn Arg Val Leu Gly Asp Asn Lys Asn Gln Leu Phe
 385 390 395 400
 Val Thr Arg Glu Asp Ala Pro Ile Ala Glu Glu Gln Leu Leu Ala
 405 410 415
 Pro Cys Ala Gly Glu Arg Thr Glu Glu Gly Met Arg Ala Asn Ile Arg
 420 425 430
 Val Ala Val Gln Tyr Ile Glu Ala Trp Ile Ser Gly Asn Gly Cys Val
 435 440 445
 Pro Ile Tyr Gly Leu Met Glu Asp Ala Ala Thr Ala Glu Ile Ser Arg
 450 455 460
 Thr Ser Ile Trp Gln Trp Ile His His Gln Lys Thr Leu Ser Asn Gly
 465 470 475 480
 Lys Pro Val Thr Lys Ala Leu Phe Arg Gln Met Leu Ala Glu Glu Met
 485 490 495
 Arg Val Ile Gln Asp Glu Leu Gly Glu His Arg Phe Ser Ser Gly Arg
 500 505 510
 Phe Asp Asp Ala Ala Arg Leu Met Glu Gln Ile Thr Thr Ser Asp Asp
 515 520 525
 Leu Ile Asp Phe Leu Thr Leu Pro Gly Tyr Arg Phe Leu Ala
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<210> 7629

<211> 549

<212> PRT

<213> Enterobacter cloacae

<400> 7629

Gly Gly Met Pro Thr Val Leu Thr Leu Leu His Leu Leu Ser Ala Val
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 Ala Leu Leu Val Trp Gly Thr His Ile Val Arg Thr Gly Val Met Arg
 20 25 30
 Val Phe Gly Ala Arg Leu Arg Thr Val Leu Ser Gly Ser Val Glu Lys
 35 40 45
 Lys Pro Leu Ala Phe Cys Ala Gly Ile Gly Val Thr Ala Leu Val Gln
 50 55 60
 Ser Ser Asn Ala Thr Thr Met Leu Val Thr Ser Phe Val Ala Gln Asp
 65 70 75 80
 Leu Val Ala Leu Ala Pro Ala Leu Val Ile Val Leu Gly Ala Asp Val
 85 90 95
 Gly Thr Ala Leu Met Ala Arg Ile Leu Thr Phe Asp Leu Ser Trp Leu
 100 105 110
 Ser Pro Leu Leu Ile Phe Ile Gly Val Ile Phe Phe Leu Gly Arg Lys
 115 120 125
 Gln Ser Arg Ala Gly Gln Leu Gly Arg Val Gly Ile Gly Leu Gly Leu
 130 135 140
 Ile Leu Leu Ala Leu Glu Leu Ile Val Gln Ala Val Thr Pro Ile Thr
 145 150 155 160
 Gln Ala Asn Gly Val Gln Val Ile Phe Ala Ser Leu Thr Gly Asp Ile
 165 170 175
 Met Leu Asp Ala Leu Ile Gly Ala Val Phe Ala Ile Val Ser Tyr Ser
 180 185 190

Ser Leu Ala Ala Val Leu Leu Thr Ala Thr Leu Thr Ala Ala Gly Val
 195 200 205
 Ile Ser Phe Pro Val Ala Leu Cys Leu Val Ile Gly Ala Asn Leu Gly
 210 215 220
 Ser Gly Leu Leu Ala Met Leu Asn Asn Ser Ala Ala Asn Ala Ala Ala
 225 230 235 240
 Arg Arg Val Ala Leu Gly Ser Leu Leu Phe Lys Leu Val Gly Ser Leu
 245 250 255
 Ile Ile Leu Pro Phe Val His Pro Leu Ala Asn Leu Met Asp Asn Leu
 260 265 270
 Ser Leu Pro Lys Ala Glu Leu Val Ile Tyr Phe His Val Phe Tyr Asn
 275 280 285
 Leu Val Arg Cys Leu Ala Met Val Pro Phe Ala Ala Pro Met Ala Arg
 290 295 300
 Phe Cys Glu Arg Leu Ile Arg Asp Glu Pro Glu Leu Asp Ala Arg Leu
 305 310 315 320
 Lys Pro Lys His Leu Asp Thr Ser Val Leu Asp Thr Pro Ala Leu Ala
 325 330 335
 Ile Ala Asn Ala Ala Arg Glu Thr Leu Arg Met Gly Asp Ala Met Glu
 340 345 350
 Thr Met Leu Glu Gly Leu Gln Lys Val Met His Gly Glu Pro Arg Glu
 355 360 365
 Glu Lys Glu Leu Arg Arg Leu Ala Asp Asp Ile Asn Val Leu Tyr Thr
 370 375 380
 Ala Ile Lys Leu Tyr Leu Ala Arg Ile Pro Gln Asp Glu Leu Ala Glu
 385 390 395 400
 Glu Glu Ser Arg Arg Trp Ala Glu Ile Ile Glu Met Ser Leu Asn Leu
 405 410 415
 Glu Gln Ala Ser Asp Ile Val Glu Arg Met Gly Ser Glu Ile Ala Asp
 420 425 430
 Lys Ser Leu Ala Ala Arg Arg Ala Phe Ser Val Glu Gly Leu Lys Glu
 435 440 445
 Leu Glu Ala Leu His Glu Gln Leu Val Ser Asn Leu Lys Leu Ala Met
 450 455 460
 Ser Val Phe Phe Ser Ser Asp Val Pro Ser Ala Arg Arg Leu Arg Arg
 465 470 475 480
 Asn Lys His Arg Phe Arg Ile Leu Asn Arg Arg Tyr Ser His Ala His
 485 490 495
 Val Glu Arg Leu His Gln Gln Asn Val Gln Ser Ile Glu Thr Ser Ser
 500 505 510
 Leu His Leu Gly Leu Leu Gly Asp Met Lys Arg Leu Asn Ser Leu Phe
 515 520 525
 Cys Ala Val Ala Tyr Ser Val Met Glu Gln Pro Asp Glu Asp Asp Glu
 530 535 540
 Arg Asp Glu Tyr
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<210> 7630

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 7630

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 20 25 30
 Gln Arg Glu Ile Lys Asp Pro Arg Val Gly Met Met Thr Thr Val Ser
 35 40 45
 Gly Val Glu Met Ser Arg Asp Leu Ala Tyr Ala Lys Val Phe Val Thr
 50 55 60

Phe	Leu	Asn	Asp	Gln	Asp	Glu	Asp	Ala	Val	Lys	Asn	Gly	Ile	Lys	Ala
65					70					75					80
Leu	Gln	Glu	Ala	Ser	Gly	Phe	Ile	Arg	Ser	Leu	Leu	Gly	Lys	Ala	Met
				85					90					95	
Arg	Leu	Arg	Ile	Val	Pro	Glu	Leu	Thr	Phe	Phe	Tyr	Asp	Asn	Ser	Leu
			100					105					110		
Val	Glu	Gly	Met	Arg	Met	Ser	Asn	Leu	Val	Thr	Ser	Val	Val	Lys	His
		115					120					125			
Asp	Asp	Glu	Arg	Arg	Val	Asn	Pro	Ala	Asp	Asp	Ser	Lys	Glu	Asp	
	130					135					140				

<210> 7631

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7631

Arg	Lys	Val	Thr	Lys	Gly	Asn	Ser	Ser	Val	Trp	Ala	Lys	Trp	Thr	Ala
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Lys	Gly	Val	Trp	Arg	Arg	Val	Val	Trp	Ser	Ser	Asn	Ile	Arg	Ser	Lys
			20					25					30		
Arg	Asp	Gly	Asp	Asn	Ala	Leu	Pro	Cys	Asp	Lys	Gln	Gly	Arg	Arg	Val
		35					40					45			
Glu	Tyr	Arg	Arg	Leu	Thr	Pro	Gly	Lys	Leu	Phe	Asn	Asn	Leu	Arg	Gly
	50					55					60				
Val	His	Gly	Ile	Ala	Glu	Leu	Glu	Ile	Gly	Ile	Leu	Thr	Phe	Phe	Ile
65					70					75					80
Leu	Trp	Ser	Leu	Lys	Met	Ser	Leu	Ser	Val	Glu	Ala	Lys	Ala	Lys	Ile
				85					90					95	
Val	Ser	Glu	Phe	Gly	Arg	Gly	Thr	Asn	Asp	Ser	Gly	Ser	Thr	Glu	Val
			100					105					110		
Gln	Val	Ala	Leu	Leu	Thr	Ala	Gln	Ile	Asn	His	Leu	Gln	Gly	His	Phe
		115					120					125			
Ala	Glu	His	Lys	Lys	Asp	His	His	Ser	Arg	Arg	Gly	Leu	Leu	Arg	Met
		130				135					140				
Val	Ser	Gln	Arg	Arg	Lys	Leu	Leu	Asp	Tyr	Leu	Lys	Arg	Lys	Asp	Val
145					150					155					160
Ala	Arg	Tyr	Thr	Ala	Leu	Ile	Glu	Arg	Leu	Gly	Leu	Arg	Arg		
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<210> 7632

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7632

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1				5					10					15	
Ser	Arg	Leu	Val	Gln	Phe	Gly	Pro	Ser	Met	Leu	Ser	Val	Pro	Val	Lys
			20					25					30		
Leu	Ala	Pro	Phe	Ala	Leu	Lys	Arg	Gln	Val	Leu	Glu	Gln	Val	Leu	Ser
		35					40					45			
Trp	Gln	Phe	Arg	Gln	Ala	Leu	Gln	Asp	Gly	Glu	Leu	Glu	Phe	Leu	Glu
	50					55					60				
Gly	Arg	Trp	Leu	Lys	Ile	Glu	Val	Arg	Asp	Ile	Gly	Leu	Arg	Trp	Phe
65					70					75					80
Thr	Ser	Val	Glu	Asn	Asp	Arg	Leu	Ile	Val	Arg	Glu	Thr	Ala	Glu	Ala
				85					90					95	
Asp	Val	Ser	Phe	Ser	Ala	Asp	Ala	Ser	Asp	Leu	Leu	Met	Ile	Ala	Ala
			100					105					110		
Arg	Lys	Gln	Asp	Pro	Asp	Thr	Leu	Phe	Phe	Gln	Arg	Arg	Leu	Val	Ile


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<210> 7633
<211> 164
<212> PRT
<213> Enterobacter cloacae
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<210> 7634
<211> 337
<212> PRT
<213> Enterobacter cloacae
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<400> 7634																
Thr	Ala	Arg	Arg	Val	Arg	Leu	Pro	Phe	Ala	Leu	Arg	Ala	Gly	Gly	Gly	
1				5					10					15		
Leu	Ile	Ile	Arg	Gln	Asp	Ala	Leu	Leu	Ser	Arg	Arg	Gly	Thr	Gly	Arg	
			20					25					30			
Ser	Ser	Asn	Ser	Cys	Leu	Arg	Glu	Trp	Glu	Met	Lys	Pro	Phe	Leu	Arg	
		35					40					45				
Trp	Cys	Phe	Val	Ala	Thr	Ala	Leu	Thr	Leu	Ala	Gly	Cys	Ser	Asn	Ser	
	50					55					60					
Ala	Trp	Arg	Lys	Ser	Glu	Val	Leu	Ala	Val	Pro	Leu	Gln	Pro	Thr	Leu	
65					70				75						80	
Gln	Gln	Glu	Val	Ile	Leu	Ala	Arg	Met	Glu	Gln	Ile	Leu	Ala	Ser	Arg	
				85					90					95		
Ala	Leu	Thr	Asp	Asp	Glu	Arg	Ala	Gln	Leu	Leu	Tyr	Glu	Arg	Gly	Val	
			100					105					110			
Leu	Tyr	Asp	Ser	Leu	Gly	Leu	Arg	Ala	Leu	Ala	Arg	Asn	Asp	Phe	Ser	
		115					120					125				

Gln Ala Leu Ala Ile Arg Pro Asp Met Pro Glu Val Phe Asn Tyr Leu
 130 135 140
 Gly Ile Tyr Leu Thr Gln Ala Gly Asn Phe Asp Ala Ala Tyr Glu Ala
 145 150 155 160
 Phe Asp Ser Val Leu Glu Leu Asp Pro Thr Tyr Asn Tyr Ala His Leu
 165 170 175
 Asn Arg Gly Ile Ala Leu Tyr Tyr Gly Gly Arg Asp Lys Leu Ala Gln
 180 185 190
 Asp Asp Leu Leu Ala Phe Tyr Gln Asp Asp Pro Asn Asp Pro Phe Arg
 195 200 205
 Ser Leu Trp Leu Tyr Ile Val Glu Gln Lys Leu Asp Glu Lys Gln Ala
 210 215 220
 Lys Glu Ala Leu Lys Gln Arg Phe Glu Lys Ser Asp Lys Glu Gln Trp
 225 230 235 240
 Gly Trp Asn Ile Val Glu Phe Tyr Leu Gly Asn Ile Ser Glu Ala Thr
 245 250 255
 Leu Met Glu Arg Leu Lys Ala Asp Ala Thr Asp Asn Thr Ser Leu Ala
 260 265 270
 Glu His Leu Ser Glu Thr Asn Phe Tyr Leu Gly Lys Tyr Tyr Leu Ser
 275 280 285
 Leu Gly Asp Met Asp Ser Ala Thr Ala Leu Phe Lys Leu Ala Val Ala
 290 295 300
 Asn Asn Val His Asn Phe Val Glu His Arg Tyr Ala Leu Leu Glu Leu
 305 310 315 320
 Ser Leu Leu Gly Gln Glu Gln Asp Asp Leu Ala Glu Ser Asp Gln Gln
 325 330 335

<210> 7635

<211> 645

<212> PRT

<213> Enterobacter cloacae

<400> 7635

Val Asp Trp Pro Pro Leu Ile Ser Arg His Leu Tyr Tyr Met Ala Glu
 1 5 10 15
 Phe Glu Thr Thr Phe Ala Asp Leu Gly Leu Lys Ala Pro Ile Leu Glu
 20 25 30
 Ala Leu Asn Asp Leu Gly Tyr Glu Lys Pro Ser Pro Ile Gln Ala Glu
 35 40 45
 Cys Ile Pro His Leu Leu Ser Gly Arg Asp Val Leu Gly Met Ala Gln
 50 55 60
 Thr Gly Ser Gly Lys Thr Ala Ala Phe Ser Leu Pro Leu Leu Asn Asn
 65 70 75 80
 Ile Asp Pro Asp Leu Arg Ala Pro Gln Ile Leu Val Leu Ala Pro Thr
 85 90 95
 Arg Glu Leu Ala Val Gln Val Ala Glu Ala Met Thr Glu Phe Ser Lys
 100 105 110
 His Met Arg Gly Val Asn Val Val Ala Leu Tyr Gly Gly Gln Arg Tyr
 115 120 125
 Asp Val Gln Leu Arg Ala Leu Arg Gln Gly Pro Gln Ile Val Val Gly
 130 135 140
 Thr Pro Gly Arg Leu Leu Asp His Leu Lys Arg Gly Thr Leu Asp Leu
 145 150 155 160
 Ser Lys Leu Ser Gly Leu Val Leu Asp Glu Ala Asp Glu Met Leu Arg
 165 170 175
 Met Gly Phe Ile Glu Asp Val Glu Thr Ile Met Ala Gln Ile Pro Glu
 180 185 190
 Gly His Gln Thr Ala Leu Phe Ser Ala Thr Met Pro Glu Ala Ile Arg
 195 200 205

Arg Ile Thr Arg Arg Phe Met Lys Glu Pro Gln Glu Val Arg Ile Gln
 210 215 220
 Ser Ser Val Thr Thr Arg Pro Asp Ile Ser Gln Ser Tyr Trp Ser Val
 225 230 235 240
 Tyr Gly Met Arg Lys Asn Glu Ala Leu Val Arg Phe Leu Glu Ala Glu
 245 250 255
 Asp Phe Asp Ala Ala Ile Ile Phe Val Arg Thr Lys Asn Ala Thr Leu
 260 265 270
 Glu Val Ala Glu Ala Leu Glu Arg Ser Gly Tyr Asn Ser Ala Ala Leu
 275 280 285
 Asn Gly Asp Met Asn Gln Ala Leu Arg Glu Gln Thr Leu Glu Arg Leu
 290 295 300
 Lys Asp Gly Arg Leu Asp Ile Leu Ile Ala Thr Asp Val Ala Ala Arg
 305 310 315 320
 Gly Leu Asp Val Glu Arg Ile Ser Leu Val Val Asn Tyr Asp Ile Pro
 325 330 335
 Met Asp Ser Glu Ser Tyr Ile His Arg Ile Gly Arg Thr Gly Arg Ala
 340 345 350
 Gly Arg Ala Gly Arg Ala Leu Leu Phe Val Glu Asn Arg Glu Arg Arg
 355 360 365
 Leu Leu Arg Asn Ile Glu Arg Ser Met Lys Leu Thr Ile Pro Glu Ala
 370 375 380
 Glu Leu Pro Asn Ala Lys Leu Leu Gly Lys Arg Arg Leu Glu Lys Phe
 385 390 395 400
 Ala Ala Arg Val Gln Gln Gln Leu Glu Ser Ile Asp Leu Asp Gln Tyr
 405 410 415
 Arg Ala Leu Leu Ser Gln Ile Gln Pro Val Ala Glu Gly Glu Glu Leu
 420 425 430
 Asp Met Glu Thr Leu Ala Ala Ala Leu Leu Lys Met Ala Gln Gly Glu
 435 440 445
 Arg Ser Leu Ile Val Pro Pro Asp Ala Pro Met Arg Pro Lys Arg Glu
 450 455 460
 Phe Arg Asp Arg Asp Asp Arg Phe Glu Arg Arg Gly Asp Arg Asn Asp
 465 470 475 480
 Arg Gly Pro Arg Gly Asp Arg Pro Glu Arg Gly Gly Glu Asp Arg Pro
 485 490 495
 Arg Arg Glu Arg Arg Asp Ala Gly Glu Met Glu Leu Tyr Arg Ile Glu
 500 505 510
 Val Gly Arg Asp Asp Gly Val Glu Val Arg His Ile Val Gly Ala Ile
 515 520 525
 Ala Asn Glu Gly Asp Ile Ser Ser Arg Tyr Ile Gly Asn Ile Lys Leu
 530 535 540
 Phe Gly Ser His Ser Thr Ile Glu Leu Pro Lys Gly Met Pro Gly Glu
 545 550 555 560
 Val Leu Gln His Phe Thr Arg Thr Arg Ile Leu Asn Lys Pro Met Asn
 565 570 575
 Met Gln Leu Leu Gly Asp Ala Gln Pro Arg Pro Asp Arg Gly Gly Glu
 580 585 590
 Arg Arg Gly Gly Gly Arg Gly Phe Gly Gly Glu Arg Arg Glu Gly Gly
 595 600 605
 Arg Ser Glu Gly Arg Gly Gly Glu Gly Arg Arg Phe Ser Gly Glu Arg
 610 615 620
 Arg Glu Asn Arg Gly Pro Arg Arg Glu Glu Gly Ala Ser Arg Arg Arg
 625 630 635 640
 Phe Gly Asp Ala
 645

<210> 7636

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7636

```

1  Ile Leu Thr Gly Asn Arg Leu Leu Ser Val Val Glu Gln Ala Gln Asn
   5                               10                      15
Ala Asn Gly Gln Phe Cys Lys Gly Asp Lys Met Ser Gln Val Leu Ile
   20                      25                      30
Thr Gly Ala Thr Gly Leu Val Gly Gly His Leu Leu Arg Leu Leu Ile
   35                      40                      45
Gln Asp Arg His Ile Asn Tyr Ile Ala Ala Pro Thr Arg Arg Pro Leu
   50                      55                      60
Leu Asp Ile Thr Gly Val Tyr Asn Pro His Asp Pro Gln Leu Thr Asp
   65                      70                      75                      80
Ala Leu Ala Gln Val Gln Asp Pro Ile Asp Ile Ala Phe Cys Cys Leu
   85                      90                      95
Gly Thr Thr Arg Arg Glu Ala Gly Ser Lys Glu Ala Phe Val His Ala
  100                      105                      110
Asp Tyr Thr Leu Val Val Asp Thr Ala Leu Thr Ala Lys Lys Leu Gly
  115                      120                      125
Ala Lys His Phe Leu Val Val Ser Ala His Gly Ala Asn Ala Gly Ser
  130                      135                      140
Pro Phe Phe Tyr Asn Gln Val Lys Gly Lys Met Glu Glu Ala Leu Ile
  145                      150                      155                      160
Ala Gln Lys Trp Glu Arg Leu Thr Ile Ala Arg Pro Ser Met Leu Met
  165                      170                      175
Gly His Arg Asp Glu Arg Arg Phe Asn Glu Ser Phe Phe Ala Pro Leu
  180                      185                      190
Phe Arg Ile Leu Pro Gly Asn Trp Lys Ser Ile Glu Ala Arg Asp Val
  195                      200                      205
Ala Leu Ala Met Leu Lys Glu Ala Leu Ala Pro Ser Gln Glu Gly Val
  210                      215                      220
Asn Ile Ile Pro Ser Ala Lys Leu Arg Glu Ile Ala Gln Gly Glu Ala
  225                      230                      235                      240

```

<210> 7637

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 7637

```

1  Gly Glu Lys Pro Ala Met Asn Lys Glu Ile Leu Ala Val Val Glu Ala
   5                               10                      15
Val Ser Asn Glu Lys Ser Leu Pro Arg Glu Lys Ile Phe Glu Ala Leu
  20                      25                      30
Glu Ser Ala Leu Ala Thr Ala Thr Lys Lys Lys Tyr Glu Gln Glu Ile
  35                      40                      45
Asp Val Arg Val Glu Ile Asp Arg Lys Ser Gly Asp Phe Asp Thr Phe
  50                      55                      60
Arg Arg Trp Val Ile Val Glu Glu Val Thr Gln Pro Thr Lys Glu Ile
  65                      70                      75                      80
Thr Leu Glu Ala Ala Arg Phe Glu Asp Glu Ser Leu Asn Val Gly Asp
  85                      90                      95
Tyr Val Glu Asp Gln Ile Glu Ser Val Thr Phe Asp Arg Ile Thr Thr
  100                      105                      110
Gln Thr Ala Lys Gln Val Ile Val Gln Lys Val Arg Glu Ala Glu Arg
  115                      120                      125
Ala Leu Val Val Asp Gln Phe Arg Asp Gln Glu Gly Glu Ile Ile Thr
  130                      135                      140
Gly Val Val Lys Lys Val Asn Arg Asp Asn Ile Ser Leu Glu Ile Lys
  145                      150                      155                      160

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Ser Glu Gly Leu Pro Gly Asn Ala Glu Ala Val Ile Leu Arg Glu Asp
 165 170 175
 Met Leu Pro Arg Glu Asn Phe Arg Pro Gly Asp Arg Ile Arg Gly Val
 180 185 190
 Leu Tyr Ala Val Arg Pro Glu Ala Arg Gly Ala Gln Leu Phe Val Thr
 195 200 205
 Arg Ser Lys Pro Glu Met Leu Val Glu Leu Phe Arg Ile Glu Val Pro
 210 215 220
 Glu Ile Gly Glu Glu Val Ile Glu Ile Lys Ala Ala Ala Arg Asp Pro
 225 230 235 240
 Gly Ser Arg Ala Lys Ile Ala Val Lys Thr Asn Asp Lys Arg Ile Asp
 245 250 255
 Pro Val Gly Ala Cys Val Gly Met Arg Gly Ala Arg Val Gln Ala Val
 260 265 270
 Ser Thr Glu Leu Gly Gly Glu Arg Ile Asp Ile Val Leu Trp Asp Asp
 275 280 285
 Asn Pro Ala Gln Phe Val Ile Asn Ala Met Ala Pro Ala Asp Val Ala
 290 295 300
 Ser Ile Val Val Asp Glu Asp Lys His Thr Met Asp Ile Ala Val Glu
 305 310 315 320
 Ala Gly Asn Leu Ala Gln Ala Ile Gly Arg Asn Gly Gln Asn Val Arg
 325 330 335
 Leu Ala Ser Gln Leu Ser Gly Trp Glu Leu Asn Val Met Thr Val Asp
 340 345 350
 Asp Leu Gln Ala Lys His Gln Ala Glu Ala His Ala Ala Ile Asp Thr
 355 360 365
 Phe Thr Lys Tyr Leu Asp Ile Asp Glu Asp Phe Ala Thr Val Leu Val
 370 375 380
 Glu Glu Gly Phe Ser Thr Leu Glu Glu Leu Ala Tyr Val Pro Met Lys
 385 390 395 400
 Glu Leu Leu Glu Ile Asp Gly Leu Asp Glu Pro Thr Val Glu Ala Leu
 405 410 415
 Arg Glu Arg Ala Lys Asn Ala Leu Thr Thr Leu Ala Leu Ala Gln Glu
 420 425 430
 Glu Ser Leu Gly Asp Lys Lys Pro Ala Asp Asp Leu Leu Asn Leu Glu
 435 440 445
 Gly Leu Asp Arg Ala Ile Ala Phe Lys Leu Ala Ala Arg Gly Val Cys
 450 455 460
 Thr Leu Glu Asp Leu Ala Glu Gln Gly Val Asp Asp Leu Ala Asp Ile
 465 470 475 480
 Glu Gly Leu Thr Asp Glu Lys Ala Gly Glu Leu Ile Met Ala Ala Arg
 485 490 495
 Asn Ile Cys Trp Phe Gly Asp Glu Ala
 500 505

<210> 7638

<211> 903

<212> PRT

<213> Enterobacter cloacae

<400> 7638

Thr Val Ala Gly Arg Asn Ser Met Thr Asp Val Thr Val Lys Ser Leu
 1 5 10 15
 Ala Ala Glu Ile Gln Thr Ser Val Asp Arg Leu Val Gln Gln Phe Ala
 20 25 30
 Asp Ala Gly Ile Pro Lys Ser Ala Asp Asp Ser Val Thr Ala Gln Glu
 35 40 45
 Lys Gln Thr Leu Leu Ala His Leu Asn Arg Glu His Gly Ser Thr Pro
 50 55 60
 Asp Lys Leu Thr Leu Gln Arg Lys Thr Arg Ser Thr Leu Asn Ile Pro
 65 70 75 80

Gly	Thr	Gly	Gly	Lys	Ser	Lys	Ser	Val	Gln	Ile	Glu	Val	Arg	Lys	Thr
				85					90					95	
Arg	Thr	Phe	Val	Lys	Arg	Asp	Pro	Gln	Glu	Ala	Glu	Arg	Leu	Ala	Ala
			100					105					110		
Glu	Glu	Gln	Ala	Gln	Arg	Glu	Ala	Glu	Glu	Gln	Ala	Gln	Arg	Glu	Ala
		115					120					125			
Glu	Ala	Thr	Ala	Lys	Arg	Glu	Ala	Glu	Leu	Lys	Ala	Glu	Arg	Glu	Ala
		130					135					140			
Ala	Glu	Lys	Ala	Lys	Arg	Asp	Ala	Gly	Glu	Lys	Ala	Lys	Arg	Asp	Ala
145						150					155				160
Ala	Glu	Lys	Asp	Lys	Val	Ser	Asn	Gln	Gln	Thr	Asp	Glu	Met	Thr	Lys
				165				170						175	
Thr	Ala	Gln	Ala	Glu	Lys	Ala	Arg	Arg	Glu	Asn	Glu	Ala	Ala	Glu	Leu
			180					185					190		
Lys	Arg	Lys	Ala	Glu	Glu	Glu	Ala	Arg	Arg	Lys	Leu	Glu	Glu	Glu	Ala
		195					200					205			
Arg	Arg	Val	Ala	Glu	Glu	Ala	Arg	Arg	Met	Ala	Glu	Glu	Asn	Glu	Lys
		210					215				220				
Asn	Gly	Val	Asn	Thr	Ala	Glu	Pro	Thr	Glu	Asp	Thr	Ser	Asp	Tyr	His
225					230						235				240
Val	Thr	Thr	Ser	Gln	His	Ala	Arg	Gln	Ala	Glu	Asp	Asp	Asn	Asp	Arg
				245				250						255	
Glu	Val	Glu	Gly	Gly	Arg	Gly	Arg	Thr	Arg	Ser	Ala	Lys	Ala	Ala	Arg
			260					265					270		
Pro	Ala	Lys	Lys	Gly	Asn	Lys	His	Ala	Glu	Ser	Lys	Ala	Asp	Arg	Glu
		275					280					285			
Glu	Ala	Arg	Ala	Ala	Val	Arg	Gly	Gly	Lys	Gly	Gly	Lys	Arg	Lys	Gly
		290					295				300				
Ser	Ala	Leu	Gln	Gln	Gly	Phe	Gln	Lys	Pro	Ala	Gln	Ala	Val	Asn	Arg
305					310					315					320
Asp	Val	Val	Ile	Gly	Glu	Thr	Ile	Thr	Val	Gly	Glu	Leu	Ala	Asn	Lys
				325					330					335	
Met	Ala	Val	Lys	Gly	Ser	Gln	Val	Ile	Lys	Ala	Met	Met	Lys	Leu	Gly
			340					345					350		
Ala	Met	Ala	Thr	Ile	Asn	Gln	Val	Ile	Asp	Gln	Glu	Thr	Ala	Gln	Leu
			355				360						365		
Val	Ala	Glu	Glu	Met	Gly	His	Lys	Val	Ile	Leu	Arg	Arg	Glu	Asn	Glu
		370					375				380				
Leu	Glu	Glu	Ala	Val	Met	Ser	Asp	Arg	Asp	Thr	Gly	Ala	Ala	Ala	Glu
385					390					395					400
Pro	Arg	Ala	Pro	Val	Val	Thr	Ile	Met	Gly	His	Val	Asp	His	Gly	Lys
				405					410					415	
Thr	Ser	Leu	Leu	Asp	Tyr	Ile	Arg	Ser	Thr	Lys	Val	Ala	Ser	Gly	Glu
			420					425					430		
Ala	Gly	Gly	Ile	Thr	Gln	His	Ile	Gly	Ala	Tyr	His	Val	Glu	Thr	Glu
		435					440					445			
Asn	Gly	Met	Ile	Thr	Phe	Leu	Asp	Thr	Pro	Gly	His	Ala	Ala	Phe	Thr
		450				455					460				
Ser	Met	Arg	Ala	Arg	Gly	Ala	Gln	Ala	Thr	Asp	Ile	Val	Val	Leu	Val
465					470					475					480
Val	Ala	Ala	Asp	Asp	Gly	Val	Met	Pro	Gln	Thr	Ile	Glu	Ala	Ile	Gln
				485					490					495	
His	Ala	Lys	Ala	Ala	Gln	Val	Pro	Leu	Val	Val	Ala	Val	Asn	Lys	Ile
			500					505					510		
Asp	Lys	Pro	Glu	Ala	Asp	Met	Asp	Arg	Val	Lys	Asn	Glu	Leu	Ser	Gln
		515					520					525			
Tyr	Gly	Val	Met	Pro	Glu	Glu	Trp	Gly	Gly	Glu	Ala	Gln	Phe	Ile	Pro
		530				535					540				
Val	Ser	Ala	Lys	Ala	Gly	Thr	Gly	Ile	Asp	Asp	Leu	Leu	Asn	Ala	Ile
545					550					555					560
Leu	Leu	Gln	Ala	Glu	Val	Leu	Glu	Leu	Lys	Ala	Val	Arg	Lys	Gly	Met

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<210> 7639
<211> 326
<212> PRT
<213> Enterobacter cloacae
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<400> 7639																
Pro	Gly	Gly	Arg	Gln	Gln	Gly	Gly	Leu	Met	Ser	Arg	Pro	Arg	Arg	Arg	
1				5					10					15		
Gly	Arg	Asp	Val	His	Gly	Val	Leu	Leu	Leu	Asp	Lys	Pro	Gln	Gly	Ala	
			20					25					30			
Ser	Ser	Asn	Asp	Val	Leu	Gln	Lys	Val	Lys	Arg	Ile	Tyr	Asn	Ala	Asn	
		35					40					45				
Arg	Ala	Gly	His	Thr	Gly	Ala	Leu	Asp	Pro	Leu	Ala	Thr	Gly	Met	Leu	
	50					55					60					
Pro	Ile	Cys	Leu	Gly	Glu	Ala	Thr	Lys	Phe	Ser	Gln	Tyr	Leu	Leu	Asp	
65				70					75						80	
Ser	Asp	Lys	Arg	Tyr	Arg	Val	Ile	Ala	Lys	Leu	Gly	Gln	Arg	Thr	Asp	

				85				90					95				
Thr	Ser	Asp	Ala	Asp	Gly	Gln	Val	Val	Glu	Glu	Arg	Pro	Val	Thr	Phe		
			100					105					110				
Ser	Ala	Glu	Gln	Leu	Asp	Ala	Ala	Leu	Asp	Ser	Phe	Arg	Gly	Asp	Thr		
		115					120					125					
Leu	Gln	Val	Pro	Ser	Met	Tyr	Ser	Ala	Leu	Lys	Tyr	Gln	Gly	Lys	Lys		
		130				135					140						
Leu	Tyr	Glu	Tyr	Ala	Arg	Gln	Gly	Ile	Glu	Val	Pro	Arg	Glu	Ala	Arg		
145					150				155						160		
Pro	Ile	Thr	Val	Tyr	Glu	Leu	Leu	Phe	Ile	Arg	His	Glu	Gly	Asp	Glu		
				165				170						175			
Leu	Glu	Leu	Glu	Val	His	Cys	Ser	Lys	Gly	Thr	Tyr	Ile	Arg	Thr	Ile		
			180					185					190				
Ile	Asp	Asp	Leu	Gly	Glu	Lys	Leu	Gly	Cys	Gly	Ala	His	Val	Ile	Tyr		
		195					200					205					
Leu	Arg	Arg	Leu	Ala	Val	Ser	Lys	Tyr	Pro	Val	Glu	Arg	Met	Val	Thr		
		210				215					220						
Leu	Glu	His	Leu	His	Ala	Leu	Ile	Glu	Gln	Ala	Gln	Ala	Gln	Gly	Val		
225					230				235						240		
Ala	Pro	Ala	Asp	Leu	Leu	Asp	Pro	Leu	Leu	Met	Pro	Met	Asp	Ser	Pro		
			245					250					255				
Ala	Val	Asp	Phe	Pro	Val	Val	Asn	Leu	Pro	Leu	Thr	Ser	Ser	Val	Tyr		
			260					265					270				
Phe	Lys	Asn	Gly	Asn	Pro	Val	Arg	Thr	Thr	Gly	Ala	Pro	Leu	Glu	Gly		
		275					280					285					
Leu	Val	Arg	Val	Thr	Glu	Gly	Asp	Glu	Gly	Lys	Phe	Ile	Gly	Met	Gly		
		290				295					300						
Glu	Met	Asp	Gly	Glu	Gly	Arg	Val	Ala	Pro	Arg	Arg	Leu	Val	Val	Glu		
305					310				315						320		
Tyr	Pro	Val	Glu	Ala													
				325													

<210> 7640

<211> 740

<212> PRT

<213> Enterobacter cloacae

<400> 7640

Ser	Arg	Gly	Cys	Glu	Glu	Gly	Arg	Val	Lys	Ser	Ser	Ala	His	Leu	Arg		
1				5					10					15			
Cys	Ala	Phe	Lys	His	Leu	Arg	Lys	Asp	Arg	Thr	Leu	Leu	Asn	Pro	Ile		
			20					25					30				
Val	Arg	Lys	Phe	Gln	Tyr	Gly	Gln	His	Thr	Val	Thr	Leu	Glu	Thr	Gly		
		35				40						45					
Met	Met	Ala	Arg	Gln	Ala	Thr	Ala	Ala	Val	Met	Val	Ser	Met	Asp	Asp		
		50				55				60							
Thr	Ala	Val	Phe	Val	Thr	Val	Val	Gly	Gln	Lys	Lys	Ala	Lys	Pro	Gly		
65					70				75					80			
Gln	Asp	Phe	Phe	Pro	Leu	Thr	Val	Asn	Tyr	Gln	Glu	Arg	Thr	Tyr	Ala		
			85					90						95			
Ala	Gly	Lys	Ile	Pro	Gly	Gly	Phe	Phe	Arg	Arg	Glu	Gly	Arg	Pro	Ser		
			100					105					110				
Glu	Gly	Glu	Thr	Leu	Ile	Ala	Arg	Leu	Ile	Asp	Arg	Pro	Val	Arg	Pro		
		115				120						125					
Leu	Phe	Pro	Glu	Gly	Phe	Val	Asn	Glu	Val	Gln	Val	Ile	Ala	Thr	Val		
		130				135					140						
Val	Ser	Val	Asn	Pro	Gln	Val	Asn	Pro	Asp	Ile	Val	Ala	Met	Ile	Gly		
145					150				155						160		
Ala	Ser	Ala	Ala	Leu	Ser	Leu	Ser	Gly	Ile	Pro	Phe	Asn	Gly	Pro	Ile		
			165					170					175				
Gly	Ala	Ala	Arg	Val	Gly	Tyr	Ile	Asn	Asp	Gln	Tyr	Val	Leu	Asn	Pro		

[illegible]

Glu Gly Leu Val His Ile Ser Gln Ile Ala Asp Lys Arg Val Glu Lys
 675 680 685
 Val Thr Asp Tyr Leu Gln Met Gly Gln Glu Val Pro Val Lys Val Leu
 690 695 700
 Glu Val Asp Arg Gln Gly Arg Ile Arg Leu Ser Ile Lys Glu Ala Thr
 705 710 715 720
 Glu Gln Ser Gln Pro Ala Ala Ala Pro Glu Ala Pro Ala Ala Glu Gln
 725 730 735
 Gln Gly Glu
 740

<210> 7641

<211> 417

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (387)

<400> 7641

Gly Arg Met Ala Thr Leu Thr Thr Thr Gln Thr Ser Pro Ser Leu Leu
 1 5 10 15
 Gly Gly Val Val Ile Ile Gly Gly Thr Ile Ile Gly Ala Gly Met Phe
 20 25 30
 Ser Leu Pro Val Val Met Ser Gly Ala Trp Phe Phe Trp Ser Leu Ala
 35 40 45
 Ala Leu Val Phe Thr Trp Phe Cys Met Leu His Ser Gly Leu Met Ile
 50 55 60
 Leu Glu Ala Asn Leu Asn Tyr Arg Ile Gly Ser Ser Phe Asp Thr Leu
 65 70 75 80
 Thr Arg Asp Leu Leu Gly Lys Gly Trp Asn Leu Val Asn Gly Leu Ser
 85 90 95
 Ile Ala Phe Val Leu Tyr Ile Leu Thr Tyr Ala Tyr Ile Ser Ala Ser
 100 105 110
 Gly Ser Ile Leu His His Thr Phe Ser Glu Met Ser Leu Asn Val Pro
 115 120 125
 Ala Arg Leu Ala Gly Leu Cys Phe Ala Leu Gly Val Ala Phe Ile Val
 130 135 140
 Trp Met Ser Thr Lys Ala Val Ser Arg Met Thr Ala Ile Val Leu Gly
 145 150 155 160
 Ala Lys Val Ile Thr Phe Phe Leu Thr Phe Gly Ser Leu Leu Gly His
 165 170 175
 Val Thr Pro Ala Thr Leu Phe Asn Val Ala Glu Thr Asn Thr Ser Tyr
 180 185 190
 Thr Pro Tyr Leu Leu Met Thr Leu Pro Phe Cys Leu Ala Ser Phe Gly
 195 200 205
 Tyr His Gly Asn Val Pro Ser Leu Met Lys Tyr Tyr Gly Lys Asp Pro
 210 215 220
 Arg Thr Ile Val Lys Cys Leu Val Tyr Gly Thr Leu Leu Ala Leu Ala
 225 230 235 240
 Leu Tyr Val Ile Trp Leu Leu Gly Thr Met Gly Asn Ile Pro Arg Pro
 245 250 255
 Glu Phe Ile Gly Ile Ala Gln Lys Gly Gly Asn Ile Asp Val Leu Val
 260 265 270
 Gln Ala Leu Gly Gly Val Leu Asn Ser His Ser Leu Asp Leu Leu Leu
 275 280 285
 Val Val Phe Ser Asn Phe Ala Val Ala Ser Ser Phe Leu Gly Val Thr
 290 295 300
 Leu Gly Leu Phe Asp Tyr Leu Ala Asp Leu Phe Gly Phe Asp Asp Ser
 305 310 315 320

Ala	Thr	Gly	Arg	Phe	Lys	Thr	Ala	Leu	Leu	Thr	Phe	Leu	Pro	Pro	Ile
				325					330					335	
Val	Gly	Gly	Leu	Leu	Trp	Pro	Asn	Gly	Phe	Leu	Tyr	Ala	Ile	Gly	Tyr
			340					345					350		
Ala	Gly	Leu	Ala	Ala	Thr	Ile	Trp	Ala	Ala	Ile	Val	Pro	Ala	Leu	Leu
		355					360					365			
Ala	Arg	Lys	Ser	Arg	Lys	Arg	Phe	Gly	Ser	Pro	Lys	Phe	Arg	Val	Trp
	370					375					380				
Gly	Gly	Xaa	Pro	Met	Ile	Ala	Leu	Ile	Leu	Val	Phe	Gly	Ile	Gly	Asn
385					390					395					400
Ala	Val	Val	His	Val	Leu	Ser	Ser	Phe	Asn	Leu	Leu	Pro	Val	Tyr	Gln
				405					410					415	

<210> 7642

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7642

Thr	Met	Leu	Ile	Arg	Val	Glu	Ile	Gly	Ile	Asp	Ala	Pro	Gly	Ile	Asp
1				5					10					15	
Ala	Leu	Leu	Arg	Arg	Ser	Phe	Ala	Gly	Asp	Ala	Glu	Ala	Gln	Leu	Val
			20					25					30		
His	Asp	Leu	Arg	Glu	Asp	Gly	Leu	Ile	Thr	Leu	Gly	Leu	Val	Ala	Thr
	35					40					45				
Asp	Asp	Glu	Gly	Gln	Val	Val	Gly	Tyr	Val	Ala	Phe	Ser	Pro	Val	Ile
	50					55				60					
Val	Gln	Gly	Glu	Glu	Leu	Gln	Trp	Val	Gly	Met	Ala	Pro	Leu	Ala	Val
65					70				75						80
Asp	Glu	Asn	Tyr	Arg	Gly	Gln	Gly	Leu	Ala	Arg	Gln	Leu	Val	Tyr	Glu
				85				90						95	
Gly	Leu	Asp	Ser	Leu	Asn	Glu	Phe	Gly	Tyr	Ala	Ala	Val	Val	Val	Leu
			100					105					110		
Gly	Asp	Pro	Ala	Phe	Tyr	Glu	Arg	Leu	Gly	Phe	Glu	Pro	Ala	Ser	Arg
	115					120						125			
Tyr	Asp	Leu	Arg	Cys	His	Trp	Pro	Gly	Thr	Glu	Thr	Ser	Phe	Gln	Val
	130					135					140				
His	Pro	Leu	Ala	Asp	Asp	Ala	Leu	Asp	Gly	Val	Thr	Gly	Leu	Val	Glu
145				150					155						160
Tyr	His	Asp	His	Phe	Asn	Arg	Phe								
				165											

<210> 7643

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7643

Glu	Arg	Ala	Lys	Met	Glu	Thr	Leu	Ala	Ala	Ile	Asn	Arg	Trp	Leu	Ala
1				5					10					15	
Lys	Gln	His	Val	Val	Thr	Trp	Cys	Val	Cys	Lys	Asp	Glu	Glu	Met	Trp
			20					25					30		
Cys	Ala	Asn	Ala	Phe	Tyr	Tyr	Tyr	Asp	Pro	Glu	Arg	Val	Ala	Phe	Tyr
	35					40					45				
Val	Met	Ser	Glu	Asp	Lys	Thr	Arg	His	Ala	Gln	Met	Thr	Gly	Gln	Gln
	50					55					60				
Ala	Lys	Val	Ala	Gly	Thr	Val	Asn	Gly	Gln	Pro	Lys	Thr	Val	Ala	Leu
65					70					75					80
Ile	Arg	Gly	Val	Gln	Phe	Lys	Gly	Glu	Ile	Arg	Arg	Leu	Glu	Gly	Glu

				85				90					95				
Glu	Ser	Asp	Ala	Gln	Arg	Lys	Arg	Tyr	Thr	Arg	Arg	Phe	Pro	Val	Ala		
			100					105					110				
Ala	Ala	Leu	Lys	Ala	Pro	Val	Trp	Glu	Ile	Arg	Leu	Asp	Glu	Leu	Lys		
		115					120					125					
Phe	Thr	Asp	Asn	Thr	Leu	Gly	Phe	Gly	Lys	Lys	Leu	His	Trp	Leu	Arg		
	130					135					140						
Ala	Glu	Gln	Ala														
145																	

<210> 7644

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7644

His	Leu	Pro	Gly	Asn	Gly	Met	Thr	Gly	Gln	Ser	Ser	Ser	Gln	Ala	Ala		
1				5					10					15			
Thr	Pro	Val	Gln	Trp	Trp	Lys	Pro	Ala	Leu	Phe	Phe	Leu	Val	Val	Ile		
			20					25					30				
Ile	Gly	Leu	Trp	Tyr	Val	Lys	Trp	Gln	Pro	Tyr	Tyr	Gly	Lys	Ala	Phe		
		35					40					45					
Thr	Ala	Ala	Asp	Thr	His	Ser	Ile	Gly	Lys	Ser	Ile	Leu	Ala	Gln	Ala		
	50					55					60						
Asp	Ser	Ser	Pro	Leu	Arg	Ala	Ala	Trp	Asp	Tyr	Ala	Met	Val	Tyr	Phe		
65					70				75					80			
Leu	Ala	Val	Trp	Lys	Ala	Ala	Val	Leu	Gly	Val	Leu	Leu	Gly	Ser	Leu		
				85				90					95				
Ile	Gln	Val	Leu	Ile	Pro	Arg	Asn	Trp	Leu	Val	Lys	Thr	Leu	Gly	Gln		
			100					105					110				
Pro	Arg	Leu	Gln	Gly	Thr	Leu	Leu	Gly	Thr	Ile	Phe	Ser	Leu	Pro	Gly		
		115					120					125					
Met	Met	Cys	Ser	Cys	Cys	Ala	Ala	Pro	Val	Ala	Ala	Gly	Met	Arg	Arg		
	130					135					140						
Gln	Arg	Val	Ser	Met	Gly	Gly	Ala	Leu	Ala	Phe	Trp	Met	Gly	Asn	Pro		
145				150					155					160			
Leu	Leu	Asn	Pro	Ala	Thr	Leu	Val	Phe	Met	Gly	Phe	Val	Leu	Gly	Trp		
			165					170					175				
His	Phe	Ala	Phe	Ile	Arg	Leu	Ala	Ala	Gly	Leu	Leu	Thr	Val	Val	Leu		
		180					185						190				
Val	Ala	Thr	Leu	Val	Gln	His	Leu	Val	Lys	Asp	Asn	Glu	Ala	Gly	Ser		
	195						200					205					
Ala	Ser	Val	Glu	Leu	Asp	Val	Ser	Glu	Pro	Gln	Gly	Ser	Phe	Phe	Ala		
	210					215					220						
Arg	Trp	Gly	Lys	Ala	Leu	Trp	Gln	Leu	Phe	Leu	Glu	His	His	Ser	Gly		
225					230				235						240		
Leu	Tyr	Pro	Gly	Phe													
				245													

<210> 7645

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7645

Trp	Arg	Pro	Val	Phe	Pro	Phe	Ser	Leu	Ser	Leu	Met	Leu	Trp	Cys	Val		
1				5					10					15			
His	Leu	Asn	Ile	Leu	Asn	Leu	Phe	Thr	Val	Cys	Trp	Phe	Leu	Tyr	Leu		
		20						25					30				
Val	Arg	Thr	Ala	Asp	Asn	Ala	Leu	Tyr	Thr	Gly	Ile	Thr	Thr	Asp	Val		
		35					40					45					

Ala Arg Arg Phe Leu Gln His Gln Thr Gly Lys Gly Ala Lys Ala Leu
 50 55 60
 Arg Gly Lys Gly Glu Leu Gln Leu Ala Phe Ser Ala Ala Val Gly Asp
 65 70 75 80
 Arg Ser Leu Ala Leu Arg Leu Glu Tyr Arg Ile Lys Gln Leu Thr Lys
 85 90 95
 Arg Gln Lys Glu Arg Leu Val Asn Gly Asp Gly Ser Phe Glu Ala Leu
 100 105 110
 Leu Glu Ser Leu Leu Lys Asn Asp
 115 120

<210> 7646

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 7646

Ala Arg Trp Gln Arg Cys Gly Val Arg Pro Ser Thr Ala Ala Trp Arg
 1 5 10 15
 Thr Arg Lys Thr Thr Leu Arg Arg Arg His Gly Trp Arg Arg Ser Ala
 20 25 30
 Arg Cys Pro Lys Ala Pro Lys Pro Arg Ser Ala Arg Ile Thr Val Asn
 35 40 45
 Gly Ser Glu Ile Ile Met Lys Tyr Ser Leu Gly Pro Val Leu Tyr Tyr
 50 55 60
 Trp Pro Lys Glu Thr Leu Glu Asp Phe Tyr Gln Gln Ala Ala Asn Ser
 65 70 75 80
 Ser Ala Asp Val Ile Tyr Leu Gly Glu Ala Val Cys Ser Lys Arg Arg
 85 90 95
 Ala Thr Lys Val Gly Asp Trp Leu Asp Met Ala Lys Ser Leu Ala Gly
 100 105 110
 Ser Gly Lys Gln Val Val Leu Ser Thr Leu Ala Leu Val Gln Ala Ser
 115 120 125
 Ser Glu Leu Gly Glu Leu Lys Arg Tyr Val Glu Asn Gly Glu Phe Leu
 130 135 140
 Leu Glu Ala Ser Asp Leu Gly Val Val Asn Met Cys Ala Glu Arg Lys
 145 150 155 160
 Leu Pro Phe Val Ala Gly His Ala Leu Asn Cys Tyr Asn Ala Val Thr
 165 170 175
 Leu Arg Leu Leu Leu Lys Gln Gly Met Thr Arg Trp Cys Met Pro Val
 180 185 190
 Glu Leu Ser Arg Asp Trp Leu Ala Asn Leu Leu Thr Gln Cys Glu Glu
 195 200 205
 Leu Gly Ile Arg Asn Lys Phe Glu Val Glu Val Leu Ser Tyr Gly His
 210 215 220
 Leu Pro Leu Ala Tyr Ser Ala Arg Cys Phe Thr Ala Arg Ser Glu Asp
 225 230 235 240
 Arg Pro Lys Asp Glu Cys Glu Thr Cys Cys Ile Lys Tyr Pro Asn Gly
 245 250 255
 Arg Ser Met Leu Ser Gln Glu Asn Gln Gln Val Phe Val Leu Asn Gly
 260 265 270
 Ile Gln Thr Met Ser Gly Tyr Val Tyr Asn Leu Gly Asn Glu Leu Ala
 275 280 285
 Ser Met His Gly Leu Val Asp Met Val Arg Leu Ser Pro Leu Asp Thr
 290 295 300
 Gly Val Phe Ala Met Leu Asp Ala Phe Arg Ala Asn Glu Asn Gly Ala
 305 310 315 320
 Ala Pro Leu Pro Leu Thr Ala Asn Ser Asp Cys Asn Gly Tyr Trp Arg
 325 330 335
 Arg Leu Ala Gly Leu Glu Leu Gln Ala
 340 345

<210> 7647
 <211> 338
 <212> PRT
 <213> Enterobacter cloacae

<400> 7647

Ala Val Met Thr Asp Lys Thr Ile Pro Phe Ser Val Leu Asp Leu Ala
 1 5 10 15
 Pro Ile Pro Gln Gly Ser Ser Ala Arg Glu Ala Phe Thr His Ser Leu
 20 25 30
 Asp Leu Ala Gln Leu Ala Glu Lys Arg Gly Tyr His Arg Tyr Trp Leu
 35 40 45
 Ala Glu His His Asn Met Val Gly Ile Ala Ser Ala Ala Thr Ser Val
 50 55 60
 Leu Ile Gly Tyr Leu Ala Ala Asn Thr Thr Thr Leu His Leu Gly Ser
 65 70 75 80
 Gly Gly Val Met Leu Pro Asn His Ala Pro Leu Val Ile Ala Glu Gln
 85 90 95
 Phe Gly Thr Leu Asn Thr Leu Tyr Pro Gly Arg Ile Asp Leu Gly Leu
 100 105 110
 Gly Arg Ala Pro Gly Ser Asp Gln Pro Thr Met Arg Ala Leu Arg Arg
 115 120 125
 His Met Ser Gly Asp Ile Asp Asn Phe Pro Arg Asp Val Ala Glu Leu
 130 135 140
 Val Gly Trp Phe Asp Ala Arg Asp Pro Asn Pro His Val Arg Pro Val
 145 150 155 160
 Pro Gly Tyr Gly Glu Lys Ile Pro Val Trp Leu Leu Gly Ser Ser Leu
 165 170 175
 Tyr Ser Ala Gln Leu Ala Ala Gln Leu Gly Leu Pro Phe Ala Phe Ala
 180 185 190
 Ser His Phe Ala Pro Asp Met Leu His Gln Ala Leu His Leu Tyr Arg
 195 200 205
 Thr His Phe Lys Pro Ser Glu Arg Leu Glu Lys Pro Tyr Ala Met Val
 210 215 220
 Cys Ile Asn Ile Ile Ala Ala Asp Ser Asn Arg Asp Ala Glu Phe Leu
 225 230 235 240
 Phe Thr Ser Met Gln Gln Ala Phe Val Lys Leu Arg Arg Gly Glu Thr
 245 250 255
 Gly Gln Leu Pro Pro Val Glu Asn Met His Gln Leu Trp Ser Ala
 260 265 270
 Ser Glu Gln Tyr Gly Val Gln Gln Ala Leu Ser Met Ser Leu Val Gly
 275 280 285
 Asp Lys Ala Lys Val Arg His Gly Leu Glu Ser Val Leu Arg Glu Thr
 290 295 300
 Gln Ala Asp Glu Ile Met Val Asn Gly Gln Ile Phe Asp His Gln Ala
 305 310 315 320
 Arg Leu His Ser Phe Asp Leu Ala Met Gln Val Lys Glu Glu Leu Val
 325 330 335
 Gly

<210> 7648
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 7648

Thr Gly Met Val Leu Gln Lys Lys Leu Pro Gln Arg Phe Ala Pro Ala
 1 5 10 15
 Ser Lys Glu Thr Ala Leu Arg Leu Ala Asp Val Gln Leu Asn Gly Ser

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<210> 7649
<211> 180
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7650
<211> 375
<212> PRT
<213> Enterobacter cloacae
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<400> 7650															
Ala	Ala	Gly	Pro	Arg	Lys	Gly	Leu	Pro	Arg	Ser	Gln	Cys	Gly	Ala	Phe
1				5					10					15	
His	Asn	Thr	Thr	Gly	Gly	Leu	Thr	Tyr	Phe	Asn	Thr	Thr	Pro	Leu	Gly
			20					25					30		
Arg	Ala	Val	Thr	Gly	Thr	Met	Leu	Val	Ala	Ala	Met	Lys	Glu	Asp	Gly
		35					40					45			

```

Val Asn Ile Trp Gly Asp Gly Ser Thr Tyr Lys Gly Asn Asp Ile Glu
 50      55      60
Arg Phe Tyr Arg Tyr Gly Leu Leu Thr Asn Ala Glu Leu Gln Ile Tyr
 65      70      75      80
Lys Pro Trp Leu Asp Thr Asp Phe Ile Asp Glu Leu Gly Gly Arg His
      85      90      95
Glu Met Ser Glu Phe Met Ile Ala Cys Gly Phe Asp Tyr Lys Met Ser
      100      105      110
Val Glu Lys Ala Tyr Ser Thr Asp Ser Asn Met Leu Gly Ala Thr His
      115      120      125
Glu Ala Lys Asp Leu Glu Phe Leu Asn Ser Ser Val Lys Ile Val Asn
      130      135      140
Pro Ile Met Gly Val Lys Phe Trp Asp Glu Asn Val Lys Ile Pro Ala
      145      150      155      160
Glu Glu Val Thr Val Arg Phe Glu Arg Gly His Pro Val Ala Leu Asn
      165      170      175
Gly Lys Thr Phe Ser Asp Asp Val Glu Leu Met Leu Glu Ala Asn Arg
      180      185      190
Ile Gly Gly Arg His Gly Leu Gly Met Ser Asp Gln Ile Glu Asn Arg
      195      200      205
Ile Ile Glu Ala Lys Ser Arg Gly Ile Tyr Glu Ala Pro Gly Met Ala
      210      215      220
Leu Leu His Ile Ala Tyr Glu Arg Leu Leu Thr Gly Ile His Asn Glu
      225      230      235      240
Asp Thr Ile Glu Gln Tyr His Ala His Asp Arg Gln Leu Gly Lys Leu
      245      250      255
Leu Tyr Gln Gly Arg Trp Phe Asp Pro Gln Ala Leu Met Leu Arg Asp
      260      265      270
Ala Met Gln Arg Trp Val Ala Ser Ala Ile Thr Gly Glu Val Thr Leu
      275      280      285
Glu Leu Arg Arg Gly Asn Glu Tyr Ser Ile Leu Asn Thr Val Ser Asp
      290      295      300
Asn Leu Thr Tyr Lys Ala Glu Arg Leu Thr Met Glu Lys Gly Glu Ser
      305      310      315      320
Val Phe Ser Pro Asp Asp Arg Ile Gly Gln Leu Thr Met Arg Asn Leu
      325      330      335
Asp Ile Thr Asp Thr Arg Glu Lys Leu Phe Asn Tyr Val Glu Asn Gly
      340      345      350
Leu Leu Ser Ala Asn Ser Gly Asn Gly Leu Pro Gln Val Glu Asn Leu
      355      360      365
Glu His Ser Asp Lys Lys
      370      375

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<210> 7651

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7651

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Ile Met Glu Leu Leu Cys Pro Ala Gly Asn Leu Pro Ala Leu Lys Ala
 1      5      10      15
Ala Ile Glu Asn Gly Ala Asp Ala Val Tyr Ile Gly Leu Lys Asp Asp
      20      25      30
Thr Asn Ala Arg His Phe Ala Gly Leu Asn Phe Thr Glu Lys Lys Leu
      35      40      45
Gln Glu Ala Val Asn Phe Val His Gln His Arg Arg Lys Leu His Ile
      50      55      60
Ala Ile Asn Thr Phe Ala His Pro Asp Gly Tyr Ala Arg Trp Gln Arg
      65      70      75      80
Ala Val Asp Met Ala Ala Gln Leu Gly Ala Asp Ala Leu Ile Leu Ala
      85      90      95

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```
<210> 7654
<211> 90
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7655
<211> 423
<212> PRT
<213> Enterobacter cloacae
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<400>	7655															
Thr	Asp	Ala	Asp	Gly	Ser	Gly	Val	Met	Ala	Ser	Pro	Leu	Ser	Leu	Leu	
1				5					10					15		
Ile	Gly	Leu	Arg	Phe	Ser	Arg	Gly	Arg	Arg	Arg	Ser	Gly	Met	Val	Ser	
			20					25					30			
Leu	Ile	Ser	Val	Ile	Ser	Thr	Ile	Gly	Ile	Ala	Leu	Gly	Val	Ala	Val	
		35				40						45				
Leu	Ile	Val	Gly	Leu	Ser	Ala	Met	Asn	Gly	Phe	Glu	Arg	Glu	Leu	Asn	
	50					55					60					
Asn	Arg	Ile	Leu	Ala	Val	Val	Pro	His	Gly	Glu	Ile	Glu	Pro	Val	Asn	
65					70					75					80	
Gln	Pro	Trp	Ser	Asn	Trp	Gln	Asp	Ser	Leu	Asn	Lys	Val	Glu	Lys	Val	
				85					90					95		
Pro	Gly	Ile	Ala	Ala	Ala	Ala	Pro	Tyr	Ile	Asn	Phe	Thr	Gly	Leu	Val	
			100				105						110			
Glu	Ser	Gly	Val	Asn	Leu	Arg	Ala	Ile	Gln	Val	Lys	Gly	Val	Asn	Pro	
		115				120						125				
Arg	Gln	Glu	Glu	Arg	Leu	Ser	Ala	Leu	Pro	Arg	Tyr	Val	Gln	Asn	Gly	
	130					135					140					

Ala Trp Ala Asn Phe Lys Ala Gly Glu Gln Gln Ile Ile Met Gly Lys
 145 150 155 160
 Gly Val Ala Asp Ala Leu Lys Val Lys Gln Gly Asp Trp Val Ser Ile
 165 170 175
 Met Ile Pro Asn Ala Ser Ala Asp His Lys Leu Gln Gln Pro Lys Arg
 180 185 190
 Val Arg Leu His Val Thr Gly Ile Leu Gln Leu Ser Gly Gln Leu Asp
 195 200 205
 His Ser Phe Ala Met Val Pro Leu Glu Asp Ala Arg Gln Tyr Leu Asp
 210 215 220
 Met Ser Asp Ser Val Thr Gly Ile Ala Ile Lys Val Asn Asp Val Phe
 225 230 235 240
 Asn Ala Asn Lys Leu Val Arg Asp Ala Gly Ser Val Thr Asn Asn Tyr
 245 250 255
 Val Tyr Ile Lys Ser Trp Ile Gly Thr Tyr Gly Tyr Met Tyr Arg Asp
 260 265 270
 Ile Gln Met Ile Arg Ala Ile Met Tyr Leu Ala Met Val Leu Val Ile
 275 280 285
 Gly Val Ala Cys Phe Asn Ile Val Ser Thr Leu Val Met Ala Val Lys
 290 295 300
 Asp Lys Ser Gly Asp Ile Ala Val Leu Arg Thr Leu Gly Ala Lys Asp
 305 310 315 320
 Gly Leu Ile Arg Ala Ile Phe Val Trp Tyr Gly Leu Leu Ala Gly Leu
 325 330 335
 Phe Gly Ser Leu Cys Gly Val Ala Ile Gly Val Val Val Ser Leu Gln
 340 345 350
 Leu Thr Pro Ile Ile Asn Gly Ile Glu Ala Leu Ile Gly His Gln Phe
 355 360 365
 Leu Ser Gly Asp Ile Tyr Phe Ile Asp Phe Leu Pro Ser Glu Leu His
 370 375 380
 Trp Leu Asp Val Ile Tyr Val Leu Val Thr Ala Leu Leu Leu Ser Leu
 385 390 395 400
 Leu Ala Ser Trp Tyr Pro Ala Arg Arg Ala Ser Arg Ile Asp Pro Ala
 405 410 415
 Arg Val Leu Ser Gly Gln
 420

<210> 7656

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7656

Phe Arg His Gly Leu Ala Val Phe Trp Pro Leu Asn Gln Thr Glu Glu
 1 5 10 15
 Cys Ile Met Tyr Tyr Gly Phe Asp Ile Gly Gly Thr Lys Ile Ala Leu
 20 25 30
 Gly Val Phe Asp Lys Asp Leu Lys Leu Gln Trp Glu Thr Arg Val Pro
 35 40 45
 Thr Pro Arg Glu Ser Tyr Asp Glu Phe Leu Thr Ala Ile Ala Ala Leu
 50 55 60
 Val Ala Gln Ala Asp Glu Arg Phe Gly Val Lys Gly Ser Val Gly Ile
 65 70 75 80
 Gly Ile Pro Gly Met Pro Glu Thr Asp Asp Gly Thr Leu Tyr Ala Ala
 85 90 95
 Asn Val Pro Ala Ala Ser Gly Lys Pro Leu Arg Ala Asp Leu Ser Ala
 100 105 110
 Leu Leu Glu Arg Asp Val Arg Leu Asp Asn Asp Ala Asn Cys Phe Ala
 115 120 125
 Leu Ser Glu Ala Trp Asp Asp Glu Phe Arg Arg Phe Pro Leu Val Met
 130 135 140

Gly Leu Ile Leu Gly Thr Gly Val Gly Gly Gly Ile Val Ile Asn Gly
 145 150 155 160
 Lys Pro Ile Thr Gly Arg Ser Tyr Ile Thr Gly Glu Phe Gly His Ile
 165 170 175
 Arg Leu Pro Val Asp Ala Leu Glu Val Val Gly Arg Asp Phe Pro Leu
 180 185 190
 Thr Arg Cys Gly Cys Gly Gln His Gly Cys Ile Glu Asn Tyr Leu Ser
 195 200 205
 Gly Arg Gly Phe Ala Trp Leu Tyr Glu His Phe Tyr His Gln Lys Leu
 210 215 220
 Glu Ala Pro Gln Ile Ile Thr Leu Trp Glu Gln Gly Asp Ala Gln Ala
 225 230 235 240
 Arg Glu His Val Glu Arg Tyr Leu Asp Leu Leu Ala Val Cys Leu Gly
 245 250 255
 Asn Ile Leu Thr Ile Val Asp Pro Asp Leu Leu Val Ile Gly Gly Gly
 260 265 270
 Leu Ser Asn Phe Thr Ala Ile Thr Glu Gln Leu Ser Gly Arg Leu Thr
 275 280 285
 Arg His Leu Leu Pro Val Ala Arg Val Pro Arg Ile Glu Arg Ala Arg
 290 295 300
 His Gly Asp Ala Gly Gly Met Arg Gly Ala Ala Phe Leu His Leu Thr
 305 310 315 320
 Asp

<210> 7657

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7657

Thr Leu Ile Lys Thr Met Ser Arg Tyr Ala Leu Leu Ser Ala Phe Ala
 1 5 10 15
 Leu Phe Leu Ala Gly Cys Val Thr Arg Thr Glu Glu Pro Ala Pro Val
 20 25 30
 Asp Gln Ala Lys Pro Gly Thr Glu Gln Pro Thr Thr Pro Ala Gln Pro
 35 40 45
 Val Pro Thr Val Pro Ser Val Pro Thr Ile Pro Ala Gln Pro Gly Pro
 50 55 60
 Ile Glu His Pro Asp Asp Thr Ala Gln Pro Ala Pro Arg Val Arg His
 65 70 75 80
 Tyr Asp Trp Asn Gly Ala Met Gln Pro Met Val Gly Lys Met Leu Gln
 85 90 95
 Ala Gln Gly Val Thr Pro Gly Ser Val Leu Leu Val Asp Ser Val Asn
 100 105 110
 Asn Arg Thr Asn Gly Ser Leu Asn Ala Gly Glu Ala Thr Glu Thr Leu
 115 120 125
 Arg Asn Ala Leu Ala Asn Asn Gly Lys Phe Thr Leu Val Ser Ala Gln
 130 135 140
 Gln Leu Ala Val Ala Lys Gln Gln Leu Gly Leu Ser Pro Gln Asp Ser
 145 150 155 160
 Leu Gly Ser Arg Ser Lys Ala Ile Gly Ile Ala Arg Asn Val Gly Ala
 165 170 175
 Gln Tyr Val Leu Tyr Ser Asn Ala Thr Gly Asn Val Asn Thr Pro Ser
 180 185 190
 Leu Gln Met Gln Leu Met Leu Val Gln Thr Gly Glu Ile Ile Trp Ser
 195 200 205
 Gly Lys Gly Ala Val Thr Gln Gln
 210 215

<210> 7658

<211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 7658

Cys	Leu	Ala	Ser	Val	Thr	Asn	Glu	Arg	Ile	Arg	Glu	Val	Gly	Val	Gly
1				5					10					15	
Pro	Val	Met	Leu	Asp	Val	Glu	Gly	Phe	Glu	Leu	Asp	Ala	Glu	Glu	Arg
			20					25				30			
Glu	Ile	Leu	Ala	His	Pro	Leu	Val	Gly	Gly	Leu	Ile	Leu	Phe	Thr	Arg
		35					40				45				
Asn	Tyr	His	Asp	Pro	Glu	Gln	Leu	Arg	Glu	Leu	Val	Arg	Gln	Ile	Arg
	50					55					60				
Ala	Ala	Ser	Arg	Asn	His	Leu	Val	Val	Ala	Val	Asp	Gln	Glu	Gly	Gly
65					70				75					80	
Arg	Val	Gln	Arg	Phe	Arg	Glu	Gly	Phe	Thr	Arg	Leu	Pro	Ala	Ala	Gln
			85					90					95		
Ser	Phe	Ala	Ala	Leu	Leu	Gly	Ile	Glu	Glu	Gly	Gly	Gln	Leu	Ala	Gln
			100					105				110			
Asp	Ala	Gly	Trp	Leu	Met	Ala	Ser	Glu	Met	Ile	Ala	Met	Asp	Ile	Asp
		115					120				125				
Ile	Ser	Phe	Ala	Pro	Val	Leu	Asp	Val	Gly	His	Ile	Ser	Ala	Ala	Ile
	130					135					140				
Gly	Glu	Arg	Ser	Tyr	His	Asp	Asp	Pro	Arg	Ile	Ala	Leu	Ala	Met	Ala
145					150					155				160	
Thr	Arg	Phe	Ile	Asp	Gly	Met	His	Ala	Ala	Gly	Met	Lys	Thr	Thr	Gly
			165					170						175	
Lys	His	Phe	Pro	Gly	His	Gly	Ala	Val	Thr	Ala	Asp	Ser	His	Lys	Glu
			180					185					190		
Thr	Pro	Arg	Asp	Pro	Arg	Pro	Glu	Ala	Asp	Ile	Arg	Ala	Lys	Asp	Met
		195					200					205			
Ser	Val	Phe	Arg	Ser	Leu	Ile	Ala	Asp	Asn	Lys	Leu	Asp	Ala	Ile	Met
	210					215					220				
Pro	Ala	His	Val	Ile	Tyr	Ser	Glu	Val	Asp	Pro	Arg	Pro	Ala	Ser	Gly
225					230				235					240	
Ser	Pro	His	Trp	Leu	Lys	Thr	Val	Leu	Arg	Gln	Glu	Leu	Gly	Phe	Asn
			245					250						255	
Gly	Val	Ile	Phe	Ser	Asp	Asp	Leu	Ser	Met	Glu	Gly	Ala	Ala	Ile	Met
			260					265					270		
Gly	Ser	Tyr	Ala	Glu	Arg	Gly	Gln	Ala	Ser	Leu	Asp	Ala	Gly	Cys	Asp
		275					280					285			
Met	Ile	Leu	Val	Cys	Asn	Asn	Arg	Lys	Gly	Ala	Val	Ser	Val	Leu	Asp
	290					295					300				
Asn	Leu	Ser	Pro	Ile	Asn	Ala	Glu	Arg	Val	Thr	Gln	Leu	Tyr	His	Lys
305					310					315				320	
Gly	Ser	Phe	Ser	Arg	Gln	Glu	Leu	Met	Asp	Ser	Ala	Arg	Trp	Lys	Thr
			325						330					335	
Val	Asn	Ala	Arg	Leu	Glu	Ala	Leu	Asn	Glu	Arg	Trp	Gln	Ala	His	Lys
			340					345					350		
Ala	Ala	Leu													
		355													

<210> 7659
 <211> 440
 <212> PRT
 <213> Enterobacter cloacae

<400> 7659

Phe	Glu	Gly	Val	Thr	Leu	Thr	Thr	Pro	Leu	Lys	Lys	Ile	Val	Ile	Val
1				5					10					15	
Gly	Gly	Gly	Ala	Gly	Gly	Leu	Glu	Leu	Ala	Thr	Gln	Leu	Gly	Lys	Lys

			20					25				30			
Leu	Gly	Arg	Gly	Lys	Lys	Ala	Lys	Ile	Thr	Leu	Val	Asp	Arg	Asn	His
		35					40					45			
Ser	His	Leu	Trp	Lys	Pro	Leu	Leu	His	Glu	Val	Ala	Thr	Gly	Ser	Leu
	50					55					60				
Asp	Glu	Gly	Val	Asp	Ala	Leu	Ser	Tyr	Leu	Ala	His	Ala	Arg	Asn	His
65					70					75				80	
His	Phe	Gln	Phe	Gln	Leu	Gly	Ser	Val	Val	Asp	Ile	Asn	Arg	Glu	Asn
				85					90					95	
Lys	Thr	Ile	Thr	Leu	Ala	Glu	Leu	Arg	Asp	Asp	Lys	Gly	Glu	Leu	Leu
			100					105					110		
Val	Pro	Glu	Arg	Lys	Leu	Ala	Tyr	Asp	Thr	Leu	Val	Met	Ala	Leu	Gly
		115					120					125			
Ser	Thr	Ser	Asn	Asp	Phe	Asn	Thr	Pro	Gly	Val	Lys	Glu	His	Cys	Ile
	130					135					140				
Phe	Leu	Asp	Asn	Pro	His	Gln	Ala	Arg	Arg	Phe	His	Gln	Glu	Met	Leu
145					150					155				160	
Asn	Leu	Phe	Leu	Lys	Tyr	Thr	Asn	Asn	Met	Gly	Ala	Asn	Gly	Lys	Val
				165					170					175	
Asn	Ile	Ala	Ile	Val	Gly	Gly	Gly	Ala	Thr	Gly	Val	Glu	Leu	Ser	Ala
			180					185					190		
Glu	Leu	His	Asn	Ala	Val	Lys	Gln	Leu	His	Ser	Tyr	Gly	Tyr	Lys	Gly
	195						200					205			
Leu	Thr	Asn	Glu	Ala	Leu	Asn	Val	Thr	Leu	Val	Glu	Ala	Gly	Glu	Arg
	210					215					220				
Ile	Leu	Pro	Ala	Leu	Pro	Pro	Arg	Ile	Ser	Gly	Ala	Ala	His	Asn	Glu
225					230					235				240	
Leu	Thr	Lys	Leu	Gly	Val	Arg	Val	Leu	Thr	Gln	Thr	Met	Val	Thr	Ser
				245					250					255	
Ala	Asp	Glu	Gly	Gly	Leu	His	Thr	Lys	Asp	Gly	Glu	Tyr	Ile	Gln	Ala
			260					265					270		
Asp	Leu	Met	Val	Trp	Ala	Ala	Gly	Ile	Lys	Ala	Pro	Asp	Phe	Met	Lys
	275						280					285			
Asp	Ile	Gly	Gly	Leu	Glu	Thr	Asn	Arg	Ile	Asn	Gln	Leu	Val	Thr	Glu
	290					295					300				
Pro	Thr	Leu	Gln	Thr	Thr	Arg	Asp	Pro	Asp	Ile	Phe	Ala	Ile	Gly	Asp
305					310					315				320	
Cys	Ala	Ser	Cys	Ala	Arg	Pro	Glu	Gly	Gly	Phe	Val	Pro	Pro	Arg	Ala
				325					330					335	
Gln	Ala	Ala	His	Gln	Met	Ala	Ser	Leu	Val	Leu	His	Asn	Ile	Leu	Ala
			340					345					350		
Gln	Ile	Lys	Gly	Lys	Pro	Met	Lys	Ala	Tyr	Val	Tyr	Lys	Asp	His	Gly
		355					360					365			
Ser	Leu	Val	Ser	Leu	Ser	Asn	Phe	Ser	Thr	Val	Gly	Ser	Leu	Met	Gly
	370					375					380				
Asn	Leu	Met	Arg	Gly	Ser	Met	Met	Val	Glu	Gly	Arg	Ile	Ala	Arg	Phe
385					390					395				400	
Val	Tyr	Ile	Ser	Leu	Tyr	Arg	Met	His	Gln	Ile	Ala	Leu	His	Gly	Tyr
				405					410					415	
Phe	Lys	Thr	Gly	Leu	Met	Met	Leu	Val	Gly	Arg	Ile	Asn	Arg	Val	Ile
			420					425					430		
Arg	Pro	Arg	Leu	Lys	Leu	His									
		435					440								

<210> 7660

<211> 648

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(355)

<400> 7660

Arg	Ile	Arg	Leu	Tyr	Thr	Arg	Gly	Ser	Ala	Ile	Ser	Lys	Gln	Thr	Asp
1				5					10					15	
Phe	Met	Tyr	Gln	Pro	Val	Ala	Leu	Phe	Ile	Gly	Leu	Arg	Tyr	Met	Arg
			20					25					30		
Gly	Arg	Ala	Ala	Asp	Arg	Phe	Gly	Arg	Phe	Val	Ser	Trp	Leu	Ser	Thr
		35					40					45			
Ile	Gly	Ile	Thr	Leu	Gly	Val	Met	Ala	Leu	Val	Thr	Val	Leu	Ser	Val
	50					55					60				
Met	Asn	Gly	Phe	Glu	Arg	Glu	Leu	Gln	Asn	Asn	Ile	Leu	Gly	Leu	Met
65					70					75					80
Pro	Gln	Ala	Val	Leu	Ser	Ser	Thr	Gln	Gly	Ser	Val	Asn	Pro	Gln	Gln
				85					90					95	
Leu	Pro	Glu	Ser	Ala	Val	Lys	Leu	Gln	Gly	Val	Thr	Arg	Val	Ala	Pro
			100					105					110		
Leu	Thr	Thr	Gly	Asp	Val	Val	Leu	Gln	Ser	Ala	Arg	Ser	Val	Ala	Val
		115					120					125			
Gly	Val	Met	Leu	Gly	Ile	Asp	Pro	Ala	Gln	Lys	Asp	Pro	Leu	Thr	Pro
		130				135					140				
Phe	Leu	Val	Asn	Val	Lys	Gln	Thr	Asp	Leu	Glu	Ala	Gly	Lys	Tyr	Asn
145					150					155					160
Val	Ile	Leu	Gly	Glu	Gln	Leu	Ala	Gly	Gln	Leu	Gly	Val	Asn	Arg	Gly
			165					170						175	
Asp	Gln	Leu	Arg	Val	Met	Val	Pro	Ser	Ala	Ser	Gln	Phe	Thr	Pro	Met
			180					185					190		
Gly	Arg	Leu	Pro	Ser	Gln	Arg	Leu	Phe	Asn	Val	Ile	Gly	Thr	Phe	Ala
		195					200					205			
Ala	Asn	Ser	Glu	Val	Asp	Gly	Tyr	Gln	Met	Leu	Val	Asn	Ile	Gln	Asp
		210				215					220				
Ala	Ser	Arg	Leu	Met	Arg	Tyr	Pro	Ala	Gly	Asn	Ile	Thr	Gly	Trp	Arg
225					230				235						240
Leu	Trp	Leu	Asp	Ala	Pro	Leu	Lys	Val	Asp	Thr	Leu	Ser	Gln	Gln	Thr
			245					250						255	
Leu	Pro	Glu	Gly	Thr	Lys	Trp	Gln	Asp	Trp	Arg	Asp	Arg	Lys	Gly	Glu
			260					265					270		
Leu	Phe	Gln	Ala	Val	Arg	Met	Glu	Lys	Asn	Met	Met	Gly	Leu	Leu	Leu
		275					280					285			
Ser	Leu	Ile	Val	Ala	Val	Ala	Ala	Phe	Asn	Ile	Ile	Thr	Ser	Leu	Gly
		290				295					300				
Leu	Met	Val	Met	Glu	Lys	Gln	Gly	Glu	Val	Ala	Ile	Leu	Gln	Thr	Gln
305					310					315					320
Gly	Leu	Thr	Pro	Arg	Gln	Ile	Met	Ala	Val	Phe	Met	Val	His	Gly	Ala
			325					330						335	
Ser	Ala	Gly	Ile	Ile	Gly	Ala	Leu	Leu	Gly	Ala	Ala	Leu	Gly	Ala	Leu
			340				345						350		
Leu	Ala	Xaa	Gln	Leu	Asn	Asn	Leu	Met	Pro	Ile	Ile	Arg	Ala	Leu	Leu
		355					360					365			
Asp	Gly	Ala	Ala	Leu	Pro	Val	Ala	Ile	Glu	Pro	Leu	Lys	Trp	Ser	Val
		370				375					380				
Leu	Arg	Trp	Pro	Arg	Trp	Pro	Met	Arg	Cys	Leu	Leu	Arg	Phe	Ile	Leu
385					390				395						400
Pro	Gly	Gly	Leu	Pro	Pro	Leu	Asn	Pro	Leu	Arg	Leu	Tyr	Val	Met	Asn
			405					410						415	
Lys	Ile	Leu	Leu	Gln	Cys	Asp	Asn	Leu	Ser	Lys	Arg	Tyr	Gln	Glu	Gly
			420				425						430		
Thr	Val	Gln	Thr	Asp	Val	Leu	His	Asn	Val	Ser	Phe	Ser	Val	Gly	Glu
		435				440					445				
Gly	Glu	Met	Met	Ala	Ile	Val	Gly	Ser	Ser	Gly	Ser	Gly	Lys	Ser	Thr
		450				455					460				

Leu Leu His Leu Leu Gly Gly Leu Asp Thr Pro Thr Glu Gly Asp Val
 465 470 475 480
 Ile Phe Ser Gly Gln Pro Leu Ser Lys Met Ser Ser Thr Ala Lys Ala
 485 490 495
 Glu Leu Arg Asn Arg Glu Leu Gly Phe Ile Tyr Gln Phe His His Leu
 500 505 510
 Leu Pro Asp Phe Thr Ala Leu Glu Asn Val Ala Met Pro Leu Leu Ile
 515 520 525
 Gly Lys Lys Lys Pro Ala Glu Ile Asn Ala Arg Ala Ser Asp Met Leu
 530 535 540
 Lys Ala Val Gly Leu Gly His Arg Gly Asn His Arg Pro Ser Glu Leu
 545 550 555 560
 Ser Gly Gly Glu Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Val Asn
 565 570 575
 Asn Pro Arg Leu Val Leu Ala Asp Glu Pro Thr Gly Asn Leu Asp Ala
 580 585 590
 Arg Asn Ala Asp Ser Ile Phe Gln Leu Leu Gly Glu Leu Asn Ala Ala
 595 600 605
 Gln Gly Thr Ala Phe Leu Val Val Thr His Asp Leu Gln Leu Ala Lys
 610 615 620
 Arg Met Gly Arg Gln Leu Glu Met Arg Asp Gly Arg Leu Asn Ala Glu
 625 630 635 640
 Leu Thr Leu Met Gly Ala Glu
 645

<210> 7661

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 7661

Lys Glu Lys Val Met Ala Glu Glu Thr Ile Phe Ser Lys Ile Ile Arg
 1 5 10 15
 Arg Glu Ile Pro Ser Asp Ile Val Tyr Gln Asp Glu Leu Val Thr Ala
 20 25 30
 Phe Arg Asp Ile Ser Pro Gln Ala Pro Thr His Ile Leu Ile Ile Pro
 35 40 45
 Asn Ile Leu Ile Pro Thr Val Asn Asp Val Lys Thr Glu His Glu Val
 50 55 60
 Ala Leu Gly Arg Met Leu Thr Val Ala Ala Lys Ile Ala Glu Gln Glu
 65 70 75 80
 Gly Ile Ala Glu Asp Gly Tyr Arg Leu Ile Met Asn Cys Asn Arg His
 85 90 95
 Gly Gly Gln Glu Val Tyr His Ile His Met His Leu Leu Gly Gly Arg
 100 105 110
 Pro Leu Gly Pro Met Leu Ala His Lys Gly Leu
 115 120

<210> 7662

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 7662

Cys Trp Phe Arg Pro Ala Lys Leu Ser Gly Gln Val Lys Val Pro Leu
 1 5 10 15
 Arg Asn Asn Lys Arg Thr Arg His Asp Val Leu Thr Arg Tyr Phe Pro
 20 25 30
 Gln Tyr His Val Ile Ala Pro Gln Ala Pro Ala Gly Leu Gly Gly Ala
 35 40 45
 Ser Cys Ile Ile Glu His Gly Asp His Arg Leu Val Leu Arg Gln His

50	55	60
His Asp Ala Ala Ala	Pro Ala Ser His Phe Arg	Arg Gln Phe Arg Ala
65	70	75
Leu Lys Arg Leu Pro	Ala Asp Leu Ala Pro	Gln Pro His Leu Phe Ile
85	90	95
Arg Asp Trp Met Ala	Val Ala Phe Ile Ala	Gly Glu Ile Lys Ser Glu
100	105	110
Leu Pro Asp Thr Pro	Ala Leu Thr Ala Met	Leu Tyr His Leu His Arg
115	120	125
Gln Pro Arg Leu Gly	Trp Arg Val Thr Leu	Leu Pro Leu Leu Asp His
130	135	140
Tyr Trp Gln Gln Ala	Ala Pro Gly Arg Arg	Thr Pro Tyr Trp Leu Ala
145	150	155
Gln Leu Lys Arg Leu	Arg Lys Ala Gly Glu	Pro Gln Ala Leu Arg Leu
165	170	175
Ala Pro Leu His Met	Asp Val His Ala Gly	Asn Ile Val His Thr Thr
180	185	190
Ala Gly Glu Lys Leu	Ile Asp Trp Glu Tyr	Ala Gly Asp Gly Asp Val
195	200	205
Ala Leu Glu Leu Ala	Ala Val Trp Met Pro	Asp Glu Ala Ser Arg Lys
210	215	220
Gln Leu Ile Thr Ala	Tyr Ala Arg Asn Ala	Asn Ile Asn Ala Leu Thr
225	230	235
Leu Ala Arg Gln Val	Ala Arg Trp Arg Pro	Trp Val Leu Met Leu Met
245	250	255
Ala Gly Trp Phe Glu	Met Arg Leu Gln Gln	Thr Gly Asp Lys Gln Phe
260	265	270
Ile Ala Leu Ala Asn	Asp Ala Trp Arg Gln	Leu Gln Thr Lys Gly
275	280	285

<210> 7663

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7663

Arg Gly Glu Thr Met	Ile Ile Tyr Leu His	Gly Phe Asp Ser Asn Ser
1	5	10
Pro Gly Asn His Glu	Lys Val Leu Gln Leu	Gln Phe Ile Asp Pro Asp
20	25	30
Val Arg Leu Ile Ser	Tyr Ser Thr Arg His	Pro Lys His Asp Met Gln
35	40	45
His Leu Leu Lys Glu	Val Asp Lys Met Leu	Gln Leu Asn Ile Asp Asp
50	55	60
Arg Pro Leu Ile Cys	Gly Val Gly Leu Gly	Tyr Trp Ala Glu Arg
65	70	75
Ile Gly Phe Leu Cys	Asp Ile Arg Gln Val	Ile Phe Asn Pro Asn Leu
85	90	95
Phe Pro Asn Glu Asn	Met Glu Gly Lys Ile	Asp Arg Pro Glu Glu Tyr
100	105	110
Ala Asp Ile Ala Thr	Lys Cys Val Ser Asn	Phe Arg Glu Lys Asn Arg
115	120	125
Asp Arg Cys Leu Val	Ile Leu Ser Arg Asn	Asp Glu Ala Leu Asn Ser
130	135	140
Ser Arg Ala Ala Glu	Leu Leu His His Tyr	Tyr Glu Ile Val Trp Asp
145	150	155
Glu Glu Gln Thr His	Lys Phe Lys Asn Ile	Ser Pro His Leu Gln Arg
165	170	175
Ile Lys Ala Phe Lys	Thr Leu Gly	
180	185	

<210> 7664
 <211> 204
 <212> PRT
 <213> Enterobacter cloacae

<400> 7664

```

Ser Phe Ile Leu Leu Ala Lys Arg Leu Leu Arg Cys Lys Ile Ala Thr
1      5      10      15
Asn Cys Asn Lys Gly Gly Ser Pro Val Asn Lys Ser Met Leu Ala Gly
20      25      30
Ile Gly Ile Gly Val Ala Ala Ala Leu Gly Val Ala Ala Val Ala Ser
35      40      45
Leu Asn Val Leu Asp Arg Gly Pro Gln Tyr Ala Gln Val Val Ser Ala
50      55      60
Thr Pro Ile Lys Glu Thr Val Lys Thr Pro Arg Gln Glu Cys Arg Asn
65      70      75      80
Val Ser Val Thr His Arg Arg Pro Val Gln Asp Glu Asn Arg Ile Ala
85      90      95
Gly Ser Val Leu Gly Ala Val Ala Gly Gly Val Ile Gly His Gln Phe
100     105     110
Gly Gly Gly Arg Gly Lys Asp Val Ala Thr Val Val Gly Ala Leu Gly
115     120     125
Gly Gly Tyr Ala Gly Asn Gln Val Gln Gly Ala Met Gln Glu Asn Asp
130     135     140
Thr Tyr Thr Thr Thr Gln Gln Arg Cys Lys Thr Val Tyr Asp Lys Ser
145     150     155     160
Glu Lys Met Leu Gly Tyr Asp Val Thr Tyr Lys Ile Gly Asp Gln Gln
165     170     175
Gly Lys Ile Arg Met Asp Lys Asp Pro Gly Thr Gln Ile Pro Leu Asp
180     185     190
Ser Asn Gly Gln Leu Ile Leu Asn Asn Lys Val
195     200

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<210> 7665
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7665

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Ala Cys Ala Thr Arg Gly Arg Arg Arg His Ala Arg Ser Arg Ile Pro
1      5      10      15
Ser Ser His Arg Leu Val Tyr Glu Val Ile Met Leu Ser Arg Arg Gln
20      25      30
Gly Arg Leu Ser Arg Phe Arg Lys Asn Lys Arg Arg Leu Arg Glu Arg
35      40      45
Leu Arg Gln Arg Ile Phe Phe Arg Asp Arg Met Met Pro Glu Ala Met
50      55      60
Asp Lys Pro Arg Val Val Val Leu Thr Gly Ala Gly Ile Ser Ala Glu
65      70      75      80
Ser Gly Ile Gln Thr Phe Arg Ala Ala Asp Gly Leu Trp Glu Glu His
85      90      95
Arg Val Glu Asp Val Ala Thr Pro Glu Gly Phe Ala Arg Asp Pro Ala
100     105     110
Leu Val Gln Ala Phe Tyr Asn Ala Arg Arg Arg Gln Leu Gln Gln Pro
115     120     125
Glu Ile Ala Pro Asn Ala Ala His Leu Ala Leu Ala Lys Leu Glu Glu
130     135     140
Ala Leu Gly Asp Arg Phe Leu Leu Val Thr Gln Asn Ile Asp Asn Leu
145     150     155     160
His Glu Arg Ala Gly Asn His Asn Ile Ile His Met His Gly Glu Leu
165     170     175

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Leu Lys Val Arg Cys Ala Trp Ser Gly Gln Val Leu Glu Trp Lys Glu
 180 185 190
 Asp Val Leu Asp Glu Asp Arg Cys His Cys Cys Gln Phe Pro Ser Arg
 195 200 205
 Leu Arg Pro His Val Val Trp Phe Gly Glu Met Pro Leu Gly Met Asp
 210 215 220
 Glu Ile Tyr Ser Ala Leu Ala Met Ala Asp Val Phe Ile Ala Ile Gly
 225 230 235 240
 Thr Ser Gly His Val Tyr Pro Ala Ala Gly Phe Val His Glu Ala Arg
 245 250 255
 Leu Gln Gly Ala His Thr Val Glu Leu Asn Leu Glu Pro Ser Gln Val
 260 265 270
 Gly Ser Glu Phe Glu Glu Lys His Tyr Gly Leu Ala Ser Glu Val Val
 275 280 285
 Pro Ala Phe Val Asp Lys Phe Leu Lys Gly Leu
 290 295 300

<210> 7666

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7666

Arg Asn Ile Cys Val Leu Leu Leu Asn Asp Asn Val Val Thr Lys Ser
 1 5 10 15
 Glu Gly Asp Cys Met Asp Lys Leu Leu Glu Arg Phe Leu His Tyr Val
 20 25 30
 Ser Leu Asp Thr Gln Ser Lys Pro Gly Val Arg Gln Val Pro Ser Thr
 35 40 45
 Glu Gly Gln Trp Lys Leu Leu Asn Leu Leu Lys Glu Gln Leu Glu Ala
 50 55 60
 Met Gly Leu Val Asp Val Thr Leu Ser Glu Lys Ala Thr Gly Leu His
 65 70 75 80
 Ala Arg Thr Gly Arg Ile Arg Ala Tyr Val Cys Ala Pro
 85 90

<210> 7667

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 7667

Asn Lys Ile Ser Gly Asp Thr Glu Met Lys Lys Met Leu Ala Ala Ala
 1 5 10 15
 Ala Leu Val Leu Gly Met Gly Ala Ala His Ala Asp Asp Ser Lys Thr
 20 25 30
 Leu Tyr Phe Tyr Asn Trp Thr Glu Tyr Val Pro Pro Gly Leu Leu Glu
 35 40 45
 Gln Phe Thr Lys Glu Thr Gly Ile Lys Val Ile Tyr Ser Thr Tyr Glu
 50 55 60
 Ser Asn Glu Thr Met Tyr Ala Lys Leu Lys Thr Tyr Lys Asp Gly Ala
 65 70 75 80
 Tyr Asp Leu Val Val Pro Ser Thr Tyr Phe Val Asp Lys Met Arg Lys
 85 90 95
 Glu Gly Met Ile Gln Lys Ile Asp Lys Thr Lys Leu Thr Asn Phe Ser
 100 105 110
 Asn Leu Asp Pro Glu Met Leu Asn Lys Pro Phe Asp Pro Asn Asn Asp
 115 120 125
 Tyr Ser Ile Pro Tyr Ile Trp Gly Ala Thr Ala Ile Gly Ile Asn Ser
 130 135 140
 Asp Ala Ile Asp Pro Lys Thr Val Ser Ser Trp Ala Asp Leu Trp Lys

145					150				155				160		
Pro	Glu	Tyr	Lys	Ser	Ser	Leu	Leu	Leu	Thr	Asp	Asp	Ala	Arg	Glu	Val
				165					170					175	
Phe	Gln	Val	Ala	Leu	Arg	Lys	Leu	Gly	Tyr	Ser	Gly	Asn	Thr	Thr	Asp
			180					185					190		
Pro	Lys	Glu	Ile	Glu	Ala	Ala	Tyr	Asn	Glu	Leu	Lys	Lys	Leu	Met	Pro
		195					200					205			
Asn	Val	Ala	Ala	Phe	Asn	Ser	Asp	Asn	Pro	Ala	Asn	Pro	Tyr	Met	Glu
	210				215						220				
Gly	Glu	Val	Asn	Leu	Gly	Met	Val	Trp	Asn	Gly	Ser	Ala	Phe	Val	Ala
225					230					235					240
Arg	Gln	Ala	Gly	Thr	Pro	Leu	Glu	Val	Val	Trp	Pro	Lys	Glu	Gly	Gly
				245					250					255	
Ile	Phe	Trp	Met	Asp	Ser	Leu	Ala	Ile	Pro	Ala	Asn	Ala	Lys	Asn	Val
			260					265						270	
Glu	Gly	Ala	Leu	Lys	Leu	Ile	Asn	Phe	Leu	Leu	Arg	Pro	Asp	Val	Ala
		275					280					285			
Lys	Glu	Val	Ala	Glu	Thr	Ile	Gly	Tyr	Pro	Thr	Pro	Asn	Leu	Ala	Ala
	290					295					300				
Arg	Lys	Leu	Leu	Ser	Pro	Glu	Val	Ala	Asn	Asp	Lys	Ser	Leu	Tyr	Pro
305					310					315					320
Asp	Ala	Glu	Thr	Ile	Ser	Lys	Gly	Glu	Trp	Gln	Asn	Asp	Val	Gly	Asp
				325					330					335	
Ala	Ser	Arg	Leu	Tyr	Glu	Glu	Tyr	Tyr	Gln	Lys	Leu	Lys	Ala	Gly	Arg
			340					345					350		

<210> 7668

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7668

Tyr	Arg	Leu	Leu	Pro	Ile	Thr	Ser	Gly	Leu	His	Phe	Thr	Thr	Ile	Gly
1				5					10					15	
Val	Ser	Phe	Met	Ala	Thr	Arg	Ser	Ser	Arg	Thr	Met	Lys	Gln	Lys	Ala
			20					25					30		
Leu	Trp	Ile	Asn	Gln	Ile	Lys	Gly	Leu	Cys	Ile	Cys	Leu	Val	Val	Ile
		35					40					45			
Tyr	His	Ser	Val	Ile	Thr	Phe	Tyr	Pro	His	Leu	Asp	Gly	Leu	Gln	His
	50					55					60				
Pro	Leu	Ser	Gly	Leu	Leu	Ala	Lys	Cys	Trp	Val	Tyr	Phe	Asn	Leu	Tyr
					70					75					80
Leu	Ala	Pro	Phe	Arg	Met	Pro	Val	Phe	Phe	Phe	Ile	Ser	Gly	Tyr	Leu
				85				90						95	
Ile	Arg	Arg	Tyr	Ile	Asp	Glu	Val	Asn	Trp	Arg	Thr	Ser	Leu	Asp	Lys
			100					105					110		
Arg	Ile	Trp	Ser	Ile	Val	Trp	Val	Leu	Ala	Leu	Trp	Gly	Val	Leu	Gln
		115					120					125			
Trp	Gln	Ala	Leu	Thr	His	Leu	Asn	Ala	Trp	Leu	Ala	Pro	Glu	Arg	Glu
						135					140				
Leu	Ala	Thr	Ala	Ser	Asn	Ala	Ala	Tyr	Ala	Asp	Ser	Val	Ser	Gly	Phe
145					150					155					160
Val	Leu	Gly	Met	Leu	Thr	Ala	Ser	Thr	Ser	Leu	Trp	Tyr	Leu	Tyr	Ala
				165					170					175	
Leu	Val	Val	Tyr	Phe	Thr	Leu	Cys	Lys	Leu	Leu	Ser	Arg	Trp	Lys	Leu
			180					185					190		
Pro	Met	Leu	Gly	Ile	Leu	Ala	Leu	Ala	Ser	Ile	Ala	Ile	Asn	Phe	Leu
		195					200					205			
Pro	Leu	Pro	Trp	Trp	Gly	Met	Asn	Ser	Val	Val	Arg	Asn	Met	Ile	Tyr

210	215	220
Tyr Ser Leu Gly Ala Trp	Tyr Gly Ala Gln Leu Met Ala Trp Met Lys	
225	230	235
Gly Met Asn Leu Arg Arg Ser Trp Leu Val Leu Leu Ala Ser Gly Ala		240
	245	250
Val Ser Val Val Leu Trp Phe Ala Asn Val Pro Leu Pro Leu Ser Leu		255
	260	265
Leu Ser Ile Val Val Ile Met Lys Leu Phe Tyr Ser Phe Glu Gln Arg		270
	275	280
Tyr Ala Val His Pro Asn Asn Leu Leu Asn Val Ile Gly Ser Asn Thr		285
	290	295
Ile Ala Ile Tyr Thr Thr His Arg Ile Leu Ile Glu Ala Phe Ser Leu		300
305	310	315
Leu Leu Ile Arg Glu Met Asn Ala Ala Tyr Trp Pro Ile Trp Ala Glu		320
	325	330
Leu Thr Leu Ile Leu Val Tyr Pro Phe Ile Ser Leu Leu Val Cys Thr		335
	340	345
Leu Val Gly Leu Gly Ala Arg Lys Leu Ser Thr Ala Leu Phe Gly Asp		350
	355	360
Leu Phe Phe Ser Pro Pro Ala Arg Leu Ser Pro Gln Thr Ala Thr Arg		365
370	375	380

385

<210> 7669

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7669

Asn Val Arg Pro His Tyr Glu Ser Pro Arg Trp Leu His Thr Asn Pro	
1	5
Ala Ser Val Cys Cys Leu Arg Arg Leu Tyr Gly Thr Ala Arg Lys Leu	
	20
Asn Thr Gln Pro Arg Ser Leu Ser Pro Leu Val Gln Leu Glu Arg Ile	
	35
Arg Lys Ser Phe Asp Gly Lys Asp Val Ile Ser Asp Leu Asn Leu Thr	
	50
Ile Asn Asp Gly Glu Phe Leu Thr Leu Leu Gly Pro Ser Gly Cys Gly	
65	70
Lys Thr Thr Val Leu Arg Leu Ile Ala Gly Leu Glu Ser Val Asp Asn	
	85
Gly His Ile His Leu Glu Asn Gln Asp Ile Thr Gln Val Pro Ala Glu	
	100
Asp Arg His Val Asn Thr Val Phe Gln Ser Tyr Ala Leu Phe Pro His	
	115
Met Thr Val Phe Glu Asn Val Ala Phe Gly Leu Arg Met Gln Lys Thr	
	130
Pro Ala Ser Glu Ile Pro Pro Arg Val Thr Glu Ala Leu Arg Met Val	
145	150
Gln Leu Glu Ala Phe Ala Gln Arg Lys Pro His Gln Leu Ser Gly Gly	
	165
Gln Gln Gln Arg Val Ala Ile Ala Arg Ala Val Val Asn Lys Pro Arg	
	180
Leu Leu Leu Leu Asp Glu Ser Leu Ser Ala Leu Asp Tyr Lys Leu Arg	
	195
Lys Gln Met Gln Asn Glu Leu Lys Ala Leu Gln Arg Lys Leu Gly Ile	
	210
Thr Phe Val Phe Val Thr His Asp Gln Glu Glu Ala Leu Thr Met Ser	
225	230
Asp Arg Ile Val Val Met Arg Asp Gly Lys Ile Glu Gln Asp Gly Thr	
	235
	240

Pro	Arg	Glu	Ile	245	Tyr	Glu	Glu	Pro	Lys	250	Asn	Leu	Phe	Val	Ala	255	Ser	Phe
			260						265						270			
Ile	Gly	Glu	Ile	Asn	Ile	Phe	Asn	Ala	Thr	Val	Ile	Glu	Arg	Leu	Asp			
		275					280						285					
Glu	Gln	Arg	Val	Arg	Ala	Asn	Val	Glu	Gly	Arg	Glu	Cys	Asn	Ile	Thr			
		290				295					300							
Val	Asn	Phe	Ala	Val	Glu	Lys	Gly	Gln	Arg	Leu	Asn	Val	Leu	Leu	Arg			
305					310					315					320			
Pro	Glu	Asp	Leu	Arg	Val	Asp	Glu	Ile	His	Asp	Thr	Ala	Asp	Val	Glu			
				325					330						335			
Gly	Leu	Ile	Gly	Tyr	Val	Arg	Glu	Arg	Asn	Tyr	Lys	Gly	Met	Thr	Leu			
			340					345					350					
Glu	Ser	Val	Val	Glu	Leu	Glu	Asn	Gly	Lys	Met	Val	Met	Val	Ser	Glu			
		355					360					365						
Phe	Phe	Asn	Glu	Asp	Asp	Pro	Asp	Phe	Asp	His	Ser	Leu	Asp	Gln	Lys			
		370				375					380							
Met	Val	Ile	Asn	Trp	Val	Glu	Ser	Trp	Glu	Val	Val	Leu	Ala	Asp	Glu			
385					390					395					400			
Glu	His	Lys																

<210> 7670

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 7670

Glu	Gly	Gly	Ala	Gly	Met	Ile	Gly	Arg	Leu	Leu	Pro	Ala	Gly	Phe	Met
1			5					10					15		
Thr	Ala	Ile	Tyr	Ala	Tyr	Leu	Tyr	Ile	Pro	Ile	Ile	Ile	Leu	Ile	Val
			20					25					30		
Asn	Ser	Phe	Asn	Ser	Ser	Arg	Phe	Gly	Ile	Asn	Trp	Gln	Gly	Phe	Thr
		35					40					45			
Thr	Lys	Trp	Tyr	Gly	Leu	Leu	Met	Asn	Asn	Asp	Ser	Leu	Leu	Gln	Ala
		50				55				60					
Ala	Gln	His	Ser	Leu	Thr	Met	Ala	Val	Phe	Ser	Ala	Thr	Phe	Ala	Thr
65					70				75						80
Leu	Ile	Gly	Ser	Leu	Thr	Ala	Val	Ala	Leu	Tyr	Arg	Tyr	Arg	Phe	Arg
				85				90						95	
Gly	Lys	Pro	Phe	Val	Ser	Gly	Met	Leu	Phe	Val	Val	Met	Met	Ser	Pro
			100					105					110		
Asp	Ile	Val	Met	Ala	Ile	Ser	Leu	Leu	Val	Leu	Phe	Met	Leu	Leu	Gly
		115					120					125			
Val	Gln	Leu	Gly	Phe	Trp	Ser	Leu	Leu	Phe	Ser	His	Ile	Thr	Phe	Cys
						135					140				
Leu	Pro	Phe	Val	Val	Val	Thr	Val	Tyr	Ala	Arg	Leu	Lys	Gly	Phe	Asp
145					150					155					160
Val	Arg	Met	Leu	Glu	Ala	Ala	Lys	Asp	Leu	Gly	Ala	Ser	Glu	Met	Thr
				165					170					175	
Ile	Leu	Arg	Lys	Ile	Ile	Leu	Pro	Leu	Ala	Met	Pro	Ala	Val	Ala	Ala
			180					185						190	
Gly	Trp	Leu	Leu	Ser	Phe	Thr	Leu	Ser	Met	Asp	Asp	Val	Val	Val	Ser
		195					200					205			
Ser	Phe	Val	Thr	Gly	Pro	Ser	Tyr	Glu	Ile	Leu	Pro	Leu	Lys	Ile	Tyr
		210				215					220				
Ser	Met	Val	Lys	Val	Gly	Val	Ser	Pro	Glu	Val	Asn	Ala	Leu	Ala	Thr
225					230					235					240
Ile	Leu	Leu	Val	Leu	Ser	Leu	Val	Leu	Val	Ile	Ala	Ser	Gln	Val	Ile
				245					250					255	
Ala	Arg	Asp	Lys	Thr	Lys	Ser	Gln	Gly	Thr	Gln	Lys				

260

265

<210> 7671

<211> 1171

<212> PRT

<213> Enterobacter cloacae

<400> 7671

Arg	His	Cys	Val	Ser	Val	Ile	Cys	Pro	Asn	Thr	Val	Gly	Ile	Ser	Pro
1				5					10					15	
Arg	Asp	Ser	Asp	Ile	Ala	Met	Pro	Glu	His	Tyr	Arg	Phe	Ser	Leu	Pro
			20					25					30		
Val	Lys	Ala	Gly	Asp	Gln	Arg	Gln	Leu	Gly	Glu	Leu	Thr	Gly	Ala	Ala
		35					40					45			
Cys	Ala	Thr	Leu	Val	Ala	Glu	Ile	Ala	Glu	Arg	His	Pro	Gly	Pro	Val
		50				55					60				
Val	Leu	Val	Ala	Pro	Asp	Met	Gln	Asn	Ala	Leu	Arg	Leu	His	Asp	Glu
65					70					75				80	
Ile	Arg	Gln	Phe	Thr	Asp	Ser	Leu	Val	Phe	Ser	Leu	Ala	Asp	Trp	Glu
				85					90					95	
Thr	Leu	Pro	Tyr	Asp	Ser	Phe	Ser	Pro	His	Gln	Glu	Ile	Ile	Ser	Ser
			100					105					110		
Arg	Leu	Ser	Thr	Leu	Tyr	Gln	Leu	Pro	Thr	Met	Gln	Arg	Gly	Val	Leu
		115					120					125			
Ile	Val	Pro	Val	Asn	Thr	Leu	Met	Gln	Arg	Val	Cys	Pro	His	Ser	Tyr
	130					135					140				
Leu	His	Gly	His	Ala	Leu	Val	Met	Lys	Lys	Gly	Gln	Arg	Leu	Ser	Arg
145					150					155					160
Asp	Ala	Leu	Arg	Val	Gln	Leu	Asp	Gly	Ala	Gly	Tyr	Arg	His	Val	Asp
				165					170					175	
Gln	Val	Met	Glu	His	Gly	Glu	Tyr	Ala	Thr	Arg	Gly	Ala	Leu	Ser	Asp
		180						185					190		
Leu	Tyr	Pro	Met	Gly	Ser	Asp	Gln	Pro	Tyr	Arg	Leu	Asp	Phe	Phe	Asp
	195						200					205			
Asp	Glu	Ile	Asp	Ser	Leu	Arg	Val	Phe	Asp	Ala	Asp	Thr	Gln	Arg	Thr
	210					215					220				
Leu	Glu	Glu	Val	Asp	Ser	Ile	Asn	Leu	Leu	Pro	Ala	His	Glu	Phe	Pro
225					230					235					240
Thr	Asp	Lys	Thr	Ala	Ile	Glu	Leu	Phe	Arg	Ser	Gln	Trp	Arg	Asp	Arg
				245					250					255	
Phe	Asp	Val	Lys	Arg	Asp	Ala	Glu	His	Ile	Tyr	Gln	Gln	Val	Ser	Lys
		260					265						270		
Gly	Thr	Leu	Pro	Ala	Gly	Ile	Glu	Tyr	Trp	Gln	Pro	Leu	Phe	Phe	Asn
	275						280					285			
Glu	Pro	Leu	Pro	Ala	Leu	Phe	Ser	Tyr	Phe	Pro	Ala	Asn	Thr	Leu	Ile
	290					295					300				
Val	Asn	Thr	Gly	Asp	Ile	Asp	Ala	Ser	Ala	Ser	Arg	Phe	Glu	Ser	Glu
305					310					315					320
Thr	Arg	Ala	Arg	Phe	Glu	Asn	Arg	Gly	Val	Asp	Pro	Met	Arg	Pro	Leu
				325					330					335	
Leu	Pro	Pro	Glu	Met	Leu	Trp	Leu	Arg	Thr	Asp	Glu	Leu	Asn	Ala	Glu
		340						345					350		
Leu	Lys	Arg	Trp	Pro	Arg	Met	Gln	Leu	Lys	Thr	Asp	Ser	Leu	Ala	Asp
		355					360					365			
Lys	Ala	Ala	Asn	Thr	Asn	Leu	Ala	Phe	Arg	Met	Leu	Pro	Asp	Leu	Ala
	370					375					380				
Val	Gln	Ala	Gln	Gln	Lys	Ser	Pro	Leu	Asp	Asn	Leu	Arg	Lys	Phe	Leu
385					390					395					400
Glu	Ser	Phe	Thr	Gly	Pro	Val	Val	Phe	Ser	Val	Glu	Ser	Glu	Gly	Arg
				405					410					415	
Arg	Glu	Ala	Leu	Gly	Glu	Leu	Leu	Gly	Arg	Ile	Lys	Val	Ala	Pro	Lys

										420							425							430		
Arg	Ile	Leu	Arg	Leu	Ser	Glu	Ala	Thr	Gly	Asn	Gly	Arg	Tyr	Leu	Met											
										435			440			445										
Ile	Gly	Ala	Ala	Glu	His	Gly	Phe	Ile	Asp	Thr	Leu	Asn	Asn	Leu	Ala											
										450			455			460										
Leu	Ile	Cys	Glu	Ser	Asp	Leu	Leu	Gly	Glu	Arg	Val	Ala	Arg	Arg	Arg											
465											470			475			480									
Gln	Asp	Ser	Arg	Arg	Thr	Ile	Asn	Pro	Asp	Thr	Leu	Ile	Arg	Asn	Leu											
										485			490			495										
Ala	Glu	Leu	His	Pro	Gly	Gln	Pro	Ile	Val	His	Leu	Glu	His	Gly	Val											
										500			505			510										
Gly	Arg	Tyr	Gln	Gly	Met	Thr	Thr	Leu	Glu	Ala	Gly	Gly	Ile	Lys	Gly											
										515			520			525										
Glu	Tyr	Leu	Met	Leu	Thr	Tyr	Ala	Asn	Asp	Ala	Lys	Leu	Tyr	Val	Pro											
										530			535			540										
Val	Ser	Ser	Leu	His	Leu	Ile	Ser	Arg	Tyr	Ala	Gly	Gly	Ala	Glu	Glu											
545											550			555			560									
Asn	Ala	Pro	Leu	His	Lys	Leu	Gly	Gly	Asp	Ala	Trp	Ala	Arg	Ala	Arg											
										565			570			575										
Gln	Lys	Ala	Ala	Glu	Lys	Val	Arg	Asp	Val	Ala	Ala	Glu	Leu	Leu	Asp											
										580			585			590										
Ile	Tyr	Ala	Gln	Arg	Ala	Ala	Lys	Glu	Gly	Tyr	Ala	Phe	Lys	His	Asp											
										595			600			605										
Lys	Glu	Gln	Tyr	Gln	Leu	Phe	Cys	Asp	Ser	Phe	Pro	Phe	Glu	Thr	Thr											
										610			615			620										
Pro	Asp	Gln	Ala	Gln	Ala	Ile	Asn	Ala	Val	Leu	Ser	Asp	Met	Cys	Gln											
625											630			635			640									
Pro	Leu	Ala	Met	Asp	Arg	Leu	Val	Cys	Gly	Asp	Val	Gly	Phe	Gly	Lys											
										645			650			655										
Thr	Glu	Val	Ala	Met	Arg	Ala	Ala	Phe	Leu	Ala	Val	Glu	Asn	Lys												
										660			665			670										
Gln	Val	Ala	Val	Leu	Val	Pro	Thr	Thr	Leu	Leu	Ala	Gln	Gln	His	Phe											
										675			680			685										
Asp	Asn	Phe	Arg	Asp	Arg	Phe	Ala	Asn	Trp	Pro	Val	Arg	Ile	Glu	Met											
										690			695			700										
Leu	Ser	Arg	Phe	Arg	Ser	Ala	Lys	Glu	Gln	Thr	Gln	Ile	Leu	Glu	Gln											
705											710			715			720									
Ala	Ser	Glu	Gly	Lys	Ile	Asp	Ile	Leu	Ile	Gly	Thr	His	Lys	Leu	Leu											
										725			730			735										
Gln	Ser	Asp	Val	Lys	Trp	Lys	Asp	Leu	Gly	Leu	Leu	Ile	Val	Asp	Glu											
										740			745			750										
Glu	His	Arg	Phe	Gly	Val	Arg	His	Lys	Glu	Arg	Ile	Lys	Ala	Met	Arg											
										755			760			765										
Ala	Asn	Val	Asp	Ile	Leu	Thr	Leu	Thr	Ala	Thr	Pro	Ile	Pro	Arg	Thr											
										770			775			780										
Leu	Asn	Met	Ala	Met	Ser	Gly	Met	Arg	Asp	Leu	Ser	Ile	Ile	Ala	Thr											
785											790			795			800									
Pro	Pro	Ala	Arg	Arg	Leu	Ala	Val	Lys	Thr	Phe	Val	Arg	Glu	Tyr	Asp											
										805			810			815										
Asn	Leu	Val	Val	Arg	Glu	Ala	Ile	Leu	Arg	Glu	Val	Leu	Arg	Gly	Gly											
										820			825			830										
Gln	Val	Tyr	Tyr	Leu	Tyr	Asn	Asp	Val	Glu	Asn	Ile	Gln	Lys	Ala	Ala											
										835			840			845										
Asp	Arg	Leu	Ala	Glu	Leu	Val	Pro	Glu	Ala	Arg	Ile	Ala	Ile	Gly	His											
										850			855			860										
Gly	Gln	Met	Arg	Glu	Arg	Glu	Leu	Glu	Arg	Val	Met	Asn	Asp	Phe	His											
865											870			875			880									
His	Gln	Arg	Phe	Asn	Val	Leu	Val	Cys	Thr	Thr	Ile	Ile	Glu	Thr	Gly											
										885			890			895										
Ile	Asp	Ile	Pro	Thr	Ala	Asn	Thr	Ile	Ile	Ile	Glu	Arg	Ala	Asp	His											
										900			905			910										

Phe Gly Leu Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Ser
 915 920 925
 His His Gln Ala Tyr Ala Trp Leu Leu Thr Pro His Pro Lys Ala Met
 930 935 940
 Thr Thr Asp Ala Gln Lys Arg Leu Glu Ala Ile Ala Ser Leu Glu Asp
 945 950 955 960
 Leu Gly Ala Gly Phe Ala Leu Ala Thr His Asp Leu Glu Ile Arg Gly
 965 970 975
 Ala Gly Glu Leu Leu Gly Glu Asp Gln Ser Gly Ser Met Glu Thr Ile
 980 985 990
 Gly Phe Ser Leu Tyr Met Glu Leu Leu Glu Asn Ala Val Asp Ala Leu
 995 1000 1005
 Lys Ala Gly Arg Glu Pro Ser Leu Glu Asp Leu Thr Ser Gln Gln Thr
 1010 1015 1020
 Glu Val Glu Leu Arg Met Pro Ser Leu Leu Pro Asp Asp Phe Ile Pro
 1025 1030 1035 1040
 Asp Val Asn Thr Arg Leu Ser Phe Tyr Lys Arg Ile Ala Ser Ala Lys
 1045 1050 1055
 Ser Glu Gly Glu Leu Glu Glu Ile Lys Val Glu Leu Ile Asp Arg Phe
 1060 1065 1070
 Gly Ile Leu Pro Asp Ala Ala Arg Asn Leu Leu Asp Ile Ala Arg Leu
 1075 1080 1085
 Arg Gln Gln Ala Gln Lys Leu Gly Ile Arg Lys Leu Glu Gly Asn Glu
 1090 1095 1100
 Lys Gly Gly Val Ile Glu Phe Ala Glu Lys Asn His Val Asp Pro Met
 1105 1110 1115 1120
 Trp Leu Ile Gly Leu Leu Gln Lys Gln Pro Gln His Phe Arg Leu Asp
 1125 1130 1135
 Gly Pro Thr Arg Leu Lys Phe Thr Gln Asp Leu Thr Glu Arg Lys Thr
 1140 1145 1150
 Arg Met Asp Trp Val Arg Asn Phe Met Arg Gln Leu Glu Glu Asn Ala
 1155 1160 1165
 Ile Ala
 1170

<210> 7672

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7672

Leu Ser Leu Thr Pro Tyr Lys Thr Ile Thr Leu Ser Phe Val Trp Ile
 1 5 10 15
 Met Ile Met Met Ile Ser Ser Arg Phe Thr Arg Trp Leu Thr Leu Val
 20 25 30
 Ala Leu Ala Ala Thr Val Ala Val Ala Leu Pro Ala Arg Ala Asn Thr
 35 40 45
 Trp Pro Leu Pro Pro Ala Gly Ser Asn Val Val Gly Glu Asn Arg Phe
 50 55 60
 His Val Val Glu Asn Asp Gly Gly Ser Leu Glu Ala Ile Ala Lys Lys
 65 70 75 80
 Tyr Asn Val Gly Phe Leu Ala Leu Leu Gln Ala Asn Pro Gly Val Asp
 85 90 95
 Pro Tyr Val Pro Arg Ala Gly Ser Val Leu Thr Ile Pro Leu Gln Thr
 100 105 110
 Ile Leu Pro Asp Ala Pro Arg Gln Gly Ile Val Ile Asn Leu Ala Glu
 115 120 125
 Leu Arg Leu Tyr Tyr Tyr Pro Pro Gly Lys Asn Glu Val Thr Val Tyr
 130 135 140
 Pro Ile Gly Ile Gly Gln Leu Gly Gly Asp Thr Leu Thr Pro Thr Met
 145 150 155 160

Val Thr Thr Val Ser Asp Lys Arg Ala Asn Pro Thr Trp Thr Pro Thr
 165 170 175
 Ala Asn Ile Arg Ala Arg Tyr Lys Ala Gln Gly Ile Asp Leu Pro Ala
 180 185 190
 Val Val Pro Ala Gly Pro Asp Asn Pro Met Gly His His Ala Ile Arg
 195 200 205
 Leu Ala Ala Tyr Gly Gly Val Tyr Leu Leu His Gly Thr Asn Ala Asp
 210 215 220
 Phe Gly Ile Gly Met Arg Val Ser Ser Gly Cys Ile Arg Leu Arg Asp
 225 230 235 240
 Asp Asp Ile Lys Thr Leu Tyr Arg Val Ile Ala Pro Gly Thr Lys Val
 245 250 255
 Asn Ile Ile Asn Thr Pro Ile Lys Val Ser Glu Glu Pro Gly Gly Val
 260 265 270
 Arg Leu Val Glu Ile His Gln Pro Leu Ser Lys Asn Ile Asn Asp Asp
 275 280 285
 Pro Gln Thr Leu Pro Ile Asn Leu Asn Ala Ser Met Val Ser Phe Lys
 290 295 300
 Thr Asn Ala Asn Thr Asp Gly Ala Val Met Glu Arg Ala Met Glu Ala
 305 310 315 320
 Arg Ser Gly Met Pro Thr Asp Val Thr Arg His His Glu Val Ala Gln
 325 330 335
 Gln Ser Met
 340

<210> 7673

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7673

Lys Ala Gly Arg Leu Tyr Trp Leu Met Lys Asn Thr Ser Lys Phe Gln
 1 5 10 15
 Asn Val Val Ile Ala Thr Ile Val Gly Trp Leu Val Leu Phe Val Phe
 20 25 30
 Leu Pro Asn Leu Met Ile Ile Val Thr Ser Phe Leu Thr Arg Asp Asp
 35 40 45
 Ala Asn Phe Val Ala Met Val Phe Thr Leu Asp Asn Tyr Ala Arg Leu
 50 55 60
 Leu Asp Pro Leu Tyr Phe Asp Val Leu Leu His Ser Leu Asn Met Ala
 65 70 75 80
 Leu Ile Ala Thr Leu Ala Cys Leu Val Leu Gly Tyr Pro Phe Ala Trp
 85 90 95
 Phe Leu Ala Arg Leu Pro Gln Lys Val Arg Pro Leu Leu Leu Phe Leu
 100 105 110
 Leu Ile Val Pro Phe Trp Thr Asn Ser Leu Ile Arg Ile Tyr Gly Leu
 115 120 125
 Lys Ile Phe Leu Ser Thr Lys Gly Tyr Leu Asn Glu Phe Leu Leu Trp
 130 135 140
 Leu Gly Val Ile Glu Thr Pro Ile Arg Ile Met Phe Thr Pro Gly Ala
 145 150 155 160
 Val Ile Val Gly Leu Val Tyr Ile Leu Leu Pro Phe Met Val Met Pro
 165 170 175
 Leu Tyr Ser Ser Ile Glu Lys Leu Asn Lys Pro Leu Leu Glu Ala Ala
 180 185 190
 Lys Asp Leu Gly Ala Ser Lys Leu Gln Thr Phe Val Arg Ile Ile Ile
 195 200 205
 Pro Leu Thr Met Pro Gly Ile Ile Ala Gly Cys Leu Leu Val Met Leu
 210 215 220
 Pro Ala Met Gly Leu Phe Tyr Val Ser Asp Leu Met Gly Gly Ala Lys
 225 230 235 240

Asn Leu Leu Ile Gly Asn Val Ile Lys Ser Gln Phe Leu Asn Ile Arg
 245 250 255
 Asp Trp Pro Phe Gly Ser Ala Thr Ser Ile Thr Leu Thr Val Val Met
 260 265 270
 Gly Leu Met Leu Leu Val Tyr Trp Arg Ala Ser Arg Leu Leu Asn Lys
 275 280 285
 Lys Val Glu Leu Glu
 290

<210> 7674

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 7674

Leu Phe Asn Lys Thr Thr Glu Asp Gln Arg His Met Thr Thr Asp Val
 1 5 10 15
 Thr Arg Cys Ala Lys Lys Ser Arg Gly Arg Pro Lys Val Phe Asp Arg
 20 25 30
 Asp Ala Ala Leu Asp Lys Ala Met Thr Leu Phe Trp Gln His Gly Tyr
 35 40 45
 Glu Ala Thr Ser Leu Ser Asp Leu Val Glu Ala Thr Gly Ala Lys Ala
 50 55 60
 Pro Thr Leu Tyr Ala Glu Phe Thr Asn Lys Glu Gly Leu Phe Arg Ala
 65 70 75 80
 Val Leu Asp Arg Tyr Ile Ser Arg Phe Ala Ala Lys His Glu Ala Gln
 85 90 95
 Leu Phe Cys Glu Lys Thr Val Glu Gln Ala Leu Gln Asp Tyr Phe
 100 105 110
 Thr Ala Ile Ala Thr Cys Tyr Thr Ser Lys Asp Thr Pro Ala Gly Cys
 115 120 125
 Phe Met Ile Asn Thr Ser Ala Thr Leu Ala Ala Ser Ser Lys Glu Ile
 130 135 140
 Ala Asn Thr Val Lys Ser Arg His Ala Met Gln Glu Glu Thr Leu Ser
 145 150 155 160
 Thr Phe Leu Ala Gln Arg Gln Leu Arg Gly Glu Ile Pro Ala His Cys
 165 170 175
 Arg Pro Gln Glu Leu Ala Gln Tyr Leu Ser Cys Ile Leu Gln Gly Met
 180 185 190
 Ser Ile Ser Ala Arg Glu Gly Ala Thr Leu Glu Lys Leu Gln Gly Ile
 195 200 205
 Thr His Thr Thr Leu Arg Leu Trp Pro Glu Leu Leu Lys Leu
 210 215 220

<210> 7675

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 7675

His Gly Gly Gln Ser Val Gln Arg Leu Thr Lys Arg Ile Gly Arg Lys
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 Met Asn Ile Ala Thr Ala Ser Leu Ser Arg Gln Gly Thr Arg Ala Ser
 20 25 30
 Asn Gln Asp Gln Thr Gly Glu Thr Ile Gly Glu Arg Ser Ala Cys Phe
 35 40 45
 Val Val Cys Asp Gly Ile Ala Gly Leu Pro Gly Gly Glu Val Ala Ala
 50 55 60
 Glu Leu Ala Arg Asn Ser Ile Ile Ser Arg Phe Asp Gly Asp Lys His
 65 70 75 80
 Leu Asn Ala Gln His Ile Arg Asp Tyr Val Gln Thr Ala Asn Arg Thr

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<210> 7676
<211> 914
<212> PRT
<213> Enterobacter cloacae
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<400> 7676															
Arg	Arg	Ala	Ile	Arg	Val	Gln	His	Leu	Ala	Arg	Pro	Ser	Ala	Ser	Ala
1			5					10					15		
Cys	Ser	Ala	Trp	Arg	Ser	Gly	Val	Ser	Arg	Arg	Ala	Ile	Ile	Leu	Pro
			20					25				30			
Tyr	Thr	Glu	Ser	Leu	Leu	Met	Glu	Thr	Asn	Met	Ser	Glu	Ile	Ser	Arg
		35					40					45			
Ala	Val	Leu	Phe	Gly	Lys	Leu	Asp	Thr	Leu	Leu	Phe	Thr	Ser	Leu	Glu
	50					55					60				
Ser	Ala	Thr	Ala	Phe	Cys	Lys	Leu	Arg	Gly	Asn	Pro	Tyr	Val	Glu	Leu
65					70					75				80	
Val	His	Trp	Leu	His	Gln	Leu	Met	Gln	Gln	Gln	Asp	Gly	Asp	Leu	Gln
				85				90						95	
Gln	Val	Ile	Arg	His	Phe	Ala	Leu	Asp	Glu	Gln	Gln	Leu	Thr	Arg	Asp
			100					105					110		
Ile	Val	Ala	Ala	Leu	Asp	Ala	Leu	Pro	Arg	Gly	Ala	Ser	Ser	Val	Ser
		115					120					125			
Asp	Leu	Ser	Glu	His	Ile	Asp	Ser	Ala	Val	Glu	Arg	Ala	Trp	Val	Tyr
	130					135					140				
Gly	Ser	Leu	Lys	Phe	Gly	Val	Ser	Arg	Ile	Arg	Gly	Gly	His	Leu	Leu
					150					155				160	
Ile	Gly	Ile	Leu	Lys	Thr	Trp	Asn	Leu	Ala	Asn	Val	Leu	Lys	Ser	Ile
				165					170					175	
Ser	Ala	Gln	Phe	Thr	Arg	Leu	Asn	Val	Glu	Val	Leu	Val	Glu	Gln	Phe
			180					185					190		
Asp	Ala	Ile	Cys	Ala	Ser	Ser	Lys	Glu	Ser	Gln	Gln	Ala	Ala	Ala	Ala
		195					200					205			
Ala	Asp	Ala	Pro	Ala	Gly	Ala	Val	Pro	Ala	Ala	Gln	Gly	Thr	Leu	Ala
	210					215					220				
Gln	Tyr	Gly	Gln	Asp	Leu	Thr	Ala	Arg	Ala	Arg	Glu	Gly	Lys	Ile	Asp

225					230					235				240
Pro	Val	Val	Gly	Arg	Asp	Glu	Glu	Ile	Arg	Gln	Met	Val	Asp	Ile
				245					250					255
Met	Arg	Arg	Arg	Gln	Asn	Asn	Pro	Leu	Leu	Thr	Gly	Glu	Ala	Gly
			260					265						270
Gly	Lys	Thr	Ala	Val	Val	Glu	Gly	Leu	Ala	Leu	Arg	Ile	Ala	Asp
		275					280					285		
Asp	Val	Pro	Glu	Pro	Leu	Gln	Asn	Val	Gln	Leu	Trp	Leu	Leu	Asp
	290					295					300			
Gly	Met	Leu	Gln	Ala	Gly	Ala	Gly	Met	Lys	Gly	Glu	Phe	Glu	Ala
305					310					315				320
Leu	Gln	Ala	Leu	Ile	Asn	Glu	Val	Gln	Ser	Ser	Ala	Thr	Pro	Ile
				325					330					335
Leu	Phe	Ile	Asp	Glu	Ile	His	Thr	Leu	Ile	Gly	Ala	Gly	Gly	Gln
			340					345						350
Gly	Thr	Gly	Asp	Ala	Ala	Asn	Leu	Leu	Lys	Pro	Ala	Leu	Ala	Arg
		355					360					365		
Gln	Leu	Arg	Thr	Ile	Gly	Ala	Thr	Thr	Trp	Ala	Glu	Tyr	Lys	Lys
	370				375						380			
Ile	Glu	Lys	Asp	Pro	Ala	Leu	Thr	Arg	Arg	Phe	Gln	Thr	Val	Gln
385				390						395				400
His	Glu	Pro	Asp	Glu	Ala	Lys	Ala	Val	Leu	Met	Leu	Arg	Ser	Thr
			405						410					415
Ser	Pro	Leu	Glu	Thr	His	His	Gln	Val	Leu	Leu	Leu	Asp	Glu	Ala
			420					425					430	
Ser	Ala	Ala	Val	Lys	Leu	Ser	His	Arg	Tyr	Ile	Pro	Ala	Arg	Gln
	435						440					445		
Pro	Asp	Lys	Ala	Val	Ala	Leu	Leu	Asp	Thr	Ala	Cys	Ala	Arg	Val
	450					455					460			
Val	Ser	Gln	Ser	Ala	Pro	Pro	Ala	Gln	Leu	Glu	Asp	Cys	Leu	Arg
465					470					475				480
Leu	Ala	Ala	Leu	Asp	Val	Glu	Leu	Glu	Ile	Ala	Glu	Arg	Glu	Ala
			485						490					495
Val	Gly	Ala	Gly	Asp	Pro	Ala	Arg	Val	Ala	Thr	Leu	Thr	Ala	Glu
			500					505					510	
Asp	Ala	Phe	Glu	Thr	Gln	Arg	Glu	Ala	Leu	Ala	Arg	Arg	Trp	Glu
	515						520					525		
Glu	Arg	Thr	Arg	Val	Gln	Glu	Ile	Ile	Arg	Leu	Arg	Ala	Ala	Leu
	530					535					540			
Ala	Ala	Gly	Asp	Glu	Asp	Thr	Ala	Glu	Leu	Arg	Gly	Gln	Leu	Ala
545					550					555				560
Gln	Gln	Gln	Ala	Leu	Lys	Ile	Leu	Gln	Gly	Asp	Glu	Pro	Leu	Leu
			565						570					575
Ala	Ala	Val	Asp	Glu	Asn	Val	Val	Ala	Ala	Val	Val	Ser	Asp	Trp
			580					585					590	
Gly	Ile	Pro	Leu	Gly	Arg	Met	Val	Lys	Asn	Glu	Ile	Asp	Ala	Val
	595						600					605		
Asn	Leu	Ala	Asp	Thr	Leu	Asn	Gln	Arg	Val	Ile	Gly	Gln	Arg	His
	610					615					620			
Leu	Asp	Leu	Ile	Ala	Arg	Arg	Val	Lys	Thr	Ser	Arg	Ala	Lys	Leu
625					630					635				640
Asp	Pro	Asn	Lys	Pro	Val	Gly	Val	Phe	Met	Leu	Cys	Gly	Pro	Ser
			645						650					655
Val	Gly	Lys	Thr	Glu	Thr	Ala	Leu	Ala	Leu	Ala	Glu	Ser	Leu	Tyr
			660					665					670	
Gly	Glu	Gln	Asn	Val	Ile	Thr	Ile	Asn	Met	Ser	Glu	Phe	Gln	Glu
		675					680					685		
His	Thr	Val	Ser	Thr	Leu	Lys	Gly	Ala	Pro	Pro	Gly	Tyr	Val	Gly
	690					695					700			
Gly	Glu	Gly	Gly	Val	Leu	Thr	Glu	Ala	Val	Arg	Arg	Arg	Pro	Tyr
705					710					715				720

Val Val Leu Leu Asp Glu Ile Glu Lys Ala His Pro Asp Val His Glu
 725 730 735
 Ile Phe Phe Gln Val Phe Asp Lys Gly Trp Met Glu Asp Gly Glu Gly
 740 745 750
 Arg His Ile Asp Phe Arg Asn Thr Ile Ile Ile Leu Thr Ser Asn Val
 755 760 765
 Gly Thr Glu Leu Ile Ser Ala Met Cys Ala Asp Pro Asp Leu Met Pro
 770 775 780
 Glu Pro Glu Ala Leu Ser Gly Ala Leu Arg Gln Pro Leu Leu Glu Val
 785 790 795 800
 Phe Pro Pro Ala Leu Leu Gly Arg Leu Leu Val Val Pro Tyr Tyr Pro
 805 810 815
 Leu Ser Asp Glu Met Leu Gly Gln Ile Val Arg Leu Gln Leu Arg Arg
 820 825 830
 Ile Gln Arg Arg Leu Glu Glu Asn His Asn Ile Ile Ser Glu Phe Asp
 835 840 845
 Asp Ser Val Val Glu Gln Ile Val Gln Arg Cys Thr Glu Val Glu Ser
 850 855 860
 Gly Gly Arg Met Val Asp Ala Ile Leu Thr Asn Thr Leu Leu Pro Gln
 865 870 875 880
 Met Ser Gln Ile Leu Leu Thr Ala Ser Arg Ser Asp Gln Gln Tyr Arg
 885 890 895
 Arg Leu His Val Thr Cys Glu Gln Gly Glu Phe His Cys Gln Phe Ala
 900 905 910
 Ala

<210> 7677

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7677

Lys Met Thr Asp Asn Asp Asn Asn Arg Thr Val Pro Asn Ala Leu Pro
 1 5 10 15
 Val Gly Tyr Arg Phe Asn Glu Phe Glu Ile Lys Glu Val Ile Gly Gly
 20 25 30
 Gly Gly Phe Gly Ile Val Tyr Arg Ala Trp Asp His Gln Leu Glu Arg
 35 40 45
 Thr Ile Ala Ile Lys Glu Phe Met Pro Ser Ser Leu Ala Val Arg Gly
 50 55 60
 Glu Asp Met Thr Leu Val Leu Arg Ser Glu Arg Phe Gly Lys Ala Phe
 65 70 75 80
 Ser Ala Gly Leu Asn Ser Phe Ile Gln Glu Ala Arg Leu Leu Ala Arg
 85 90 95
 Phe Asn His Pro Asn Leu Leu His Val Leu Arg Phe Trp Val Gln Asn
 100 105 110
 Asp Thr Ala Tyr Met Gly Thr Leu Phe Tyr Ser Gly Thr Thr Leu Ser
 115 120 125
 Arg Leu Arg Glu Glu Lys Pro Glu Leu Ile Asn Glu Ala Trp Ile Arg
 130 135 140
 Arg Met Leu Pro Met Leu Phe Gly Ala Ile Lys Thr Ile His Asp Glu
 145 150 155 160
 Gly Tyr Leu His Arg Asp Ile Ser Leu Asp Asn Ile Gln Ile Gln Asp
 165 170 175
 Asn Gly Leu Pro Val Leu Leu Asp Phe Gly Ser Ala Arg Arg Thr Ile
 180 185 190
 Gly Asn Leu Ser Asp Glu Thr Glu Thr Met Leu Arg Pro Gly Phe Ala
 195 200 205
 Pro Ile Glu Gln Tyr Thr Asp Asp Asn Glu Ser Glu Gln Gly Pro Trp
 210 215 220

Thr Asp Ile Tyr Ala Leu Gly Ala Val Leu Arg Thr Leu Ile Val Gly
 225 230 235 240
 Ser Pro Pro Pro Val Ser Val Val Arg Ser Ile Gln Asp Thr Cys Lys
 245 250 255
 Pro Leu Val Glu Leu Met Pro Gln Gly Tyr Ser Ile Pro Leu Leu Gln
 260 265 270
 Ala Ile Asp Lys Ala Leu Ala Leu His Met Glu Asp Arg Pro Gln Ser
 275 280 285
 Ile Glu Glu Phe Ala Ala Leu Ile Glu Met Pro Val Ala Gly Ile Asp
 290 295 300
 Glu Val Leu Thr Ala Lys Lys Thr Gly Thr Met Leu Val Pro Val Glu
 305 310 315 320
 Glu Glu Ala Ser Ala Ser Ala Leu Asp Trp Arg Arg Tyr Lys Leu Pro
 325 330 335
 Gly Leu Val Ala Ala Gly Val Leu Val Gly Val Val Ala Gly Ala Met
 340 345 350
 Leu Phe Gly Gly Gly Ser Gln Glu Thr Pro Glu Gln Thr Ala Gln Thr
 355 360 365
 Pro Ala Val Ser Pro Pro Ala Glu Thr Ser Ser Gln Ser Glu Thr Arg
 370 375 380
 Pro Ala Thr Ala Asp Val Ser Glu Pro Val Ala Pro Pro Ala Thr Ala
 385 390 395 400
 Gln Gln Ser Ala Pro Pro Val Asp Ala Ser Pro Val Ala Leu Val Tyr
 405 410 415
 Ile Arg Met Leu Asp Gly Glu Thr Leu Lys Val Asn Gly Glu Ser Lys
 420 425 430
 Ala Leu Arg Pro Gly Asn Asn Gly Tyr Ala Ser Leu Lys Leu Pro Ala
 435 440 445
 Gly Glu Thr Arg Ile Glu Leu Glu Gly Asn Gly Arg Thr Arg Thr Gln
 450 455 460
 Thr Leu Asp Ile Ala Lys Pro Gly Thr Trp Leu Val Asn Pro
 465 470 475

<210> 7678

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 7678

Gly Tyr Phe Asp Asn Arg Glu Ser Ile Val Lys Lys Gly Leu Met Ala
 1 5 10 15
 Phe Val Ala Leu Cys Phe Leu Phe Met Ile Gln Gly Cys Lys Gln Asp
 20 25 30
 Met Asp Leu Asn Pro Gln Asp Tyr Phe Ser Gly Gln Gln Leu Glu Leu
 35 40 45
 Ala Lys Ala Ile Glu Glu Gly Asp Val Asp Ala Val Lys Thr Leu Ala
 50 55 60
 Pro Asp Ser Asp Leu Asn Lys Pro Gly Lys Gln Asp Met Thr Leu Leu
 65 70 75 80
 Phe Trp Ala Ile Gly Asn Ala Ile Asn Asp Lys Lys Thr Ser Pro His
 85 90 95
 Leu Lys Val Ile Thr Leu Leu Val Lys Ala Gly Ala Asp Pro Leu Gln
 100 105 110
 Pro Arg Pro Gln Gly Lys Ser Ser Pro Ala Glu Phe Ala Leu Lys Gly
 115 120 125
 Asp Ser Ala Asp Trp Ile Asp Ala Met Leu Asp Gly Gly Leu Ser Pro
 130 135 140
 Asn Val Lys Asp Lys Val Phe His Glu Pro Ile Val Phe Gln Ser Leu
 145 150 155 160
 Lys Ala Lys Asn Thr Glu Thr Leu Glu Ala Met Leu Asn Arg Gly Ala
 165 170 175

Asp Val Asn Ser Thr Asn Ser Leu Gly Lys Thr Leu Val Phe Asp Ala
 180 185 190
 Leu Asp Asn Gln Ala Tyr Asp His Val Leu Leu Leu Leu Asp Arg Gly
 195 200 205
 Ala Asp Pro Ser Ile Lys Ala Lys Asn Gly Trp Ser Met Ser Asn Ala
 210 215 220
 Leu Ala Asp Ala Leu Asn Gly Leu Glu Arg Gly Ser Glu Gln Tyr Glu
 225 230 235 240
 Lys Leu Asn Glu Ile Lys Glu Lys Leu Ile Gln Lys Gly Gly Glu Trp
 245 250 255
 Pro Pro Ala Pro Val Lys
 260

<210> 7679

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 7679

Arg Val Arg Arg Pro Ile Thr Arg Thr Phe Thr Phe Lys Lys Pro Cys
 1 5 10 15
 Val Lys Asn Ile Leu Ser Ile Asn His Tyr Gly Ile Lys Ile Met Leu
 20 25 30
 Asn Arg Ile Thr Val Gln Leu Pro Val Glu Gly Leu Leu Phe Trp Lys
 35 40 45
 Leu Ser Gly Arg Glu Ala Met Ser Glu Ser Phe Ala Leu Thr Leu Thr
 50 55 60
 Leu Leu Gly Thr Asp Ala Arg Ile Asp Arg Ser Arg Leu Leu Gly Gln
 65 70 75 80
 Pro Val Thr Val Thr Ile Pro Thr Gln Ser Leu Leu Thr Pro Arg Phe
 85 90 95
 Ile Asn Gly Lys Val Thr Arg Val Ala Val Ser Ala Val Glu Leu Thr
 100 105 110
 Gly Thr Arg Tyr Ala Val Tyr Gln Leu Thr Val Glu Pro Asp Leu Trp
 115 120 125
 Pro Met Lys Arg Asp Arg Asn Leu Arg Ile Phe Gln Gly Gln Thr Val
 130 135 140
 Pro Gln Ile Val Lys Thr Leu Leu Gly Glu His Gln Val Asn Leu Glu
 145 150 155 160
 Asp Lys Leu Thr Gly Ser Tyr Arg Val Trp Asp Tyr Cys Val Gln Tyr
 165 170 175
 Gln Glu Ser Ser Leu Asp Phe Ile Ser Arg Leu Met Glu Leu Glu Gly
 180 185 190
 Ile Ala Tyr Tyr Phe Ser His Glu Ala Asp Lys His Thr Leu Val Leu
 195 200 205
 Thr Asp Ala Ala Pro Gln His Gln Pro Phe Ser Gly Tyr Glu Val Ile
 210 215 220
 Pro Tyr His Gln Thr Pro Ser Gly Gly Ser Thr Asp Glu Glu Gly Ile
 225 230 235 240
 Ser Gln Trp Ala Leu Glu Asp Ser Val Thr Pro Gly Ile Tyr Ser Leu
 245 250 255
 Asp Asp Tyr Asp Phe Arg Lys Pro Asn Ala Trp Leu Phe Gln Ala Gln
 260 265 270
 Gln Tyr Pro Ala Ser Pro Lys Pro Gly Ser Ile Asp Val Tyr Asp Trp
 275 280 285
 Pro Gly Arg Phe Val Glu Ser Ala His Thr Glu Ile Tyr Ala Ser Phe
 290 295 300
 Pro Arg Glu Leu Trp Gln Leu Glu His Gln Gln Ile Gln Ala Ser Thr
 305 310 315 320
 Trp Arg Arg Gly Val Thr Pro Ser Ser Ser Ile Pro Ala Met Cys Ser
 325 330 335

Met Lys Met Trp Arg Cys Leu Pro Val Ser Trp Arg Ala Arg Lys Lys
 340 345 350
 Met Pro Cys Leu Ser Val Met Arg Cys Leu Ile Ser Ala Arg Gly Lys
 355 360 365
 Lys Cys Cys Ala Val Arg Asn Gln Ala Gly Ile Ser Thr Thr Ala Ser
 370 375 380
 Arg Pro Ala Ile Arg Leu Phe Ser Ser Gln Gly Ala Val
 385 390 395

<210> 7680

<211> 599

<212> PRT

<213> Enterobacter cloacae

<400> 7680

Ser Tyr Gln Gln Glu Tyr Ala Met Arg Phe Thr Ile Ile Ser Thr Lys
 1 5 10 15
 Pro Gly His Gln Pro Pro Gln Ser Ser Cys Asp Phe Tyr Ala Pro Gly
 20 25 30
 Gly Thr Ile Gly Arg Gly Thr Asp Asn Asn Leu Val Leu Pro Asp Asn
 35 40 45
 Asp Arg Thr Ile Ser Arg Leu Gln Ala Ile Val His Val Asp Ala Ser
 50 55 60
 Gly Glu Cys Arg Val Thr Asn Arg Gly Ser Val Thr Arg Val Val Leu
 65 70 75 80
 Asn Asp Ile Pro Leu Glu Arg Gly Arg Gln Val Glu Leu Gln Asp Gly
 85 90 95
 Asp Ile Leu Gly Ile Asp Asp Tyr Arg Ile Glu Val Ser Glu Leu Ile
 100 105 110
 His Asp Thr Gln Pro Val Ser Arg Met Ala Ala Ser Met Gln Gln Ala
 115 120 125
 Arg Pro Ala Ala Thr Pro Ala Pro Ala Pro Gln Pro Lys Pro Ala Ser
 130 135 140
 Ala Ala Pro Arg Gly Lys Ala Glu Pro Thr Ala Val Pro Ser Glu Ile
 145 150 155 160
 Trp Asp Ser Leu Met Gln Glu Phe Ser Ile Ser Asp Ser Ile Ser Ser
 165 170 175
 Asn Arg Ala Lys Pro Gln Pro Ala Ala Ser His Asp Pro Phe Ser Gln
 180 185 190
 Pro Ala Ala Pro Glu Arg Asn Ala Glu Asp Pro Leu Ala Met Phe Asn
 195 200 205
 Asp Ala Glu Pro Ser Leu Glu Arg Lys Asn Val Asp Pro Asp Thr Leu
 210 215 220
 Phe Ser Asp Glu Ala Leu Phe Lys Lys Glu Ser Ile Phe Asp Asp Val
 225 230 235 240
 Thr Pro Ser Thr Leu Val Gln Pro Asp Glu Ser Lys Pro Ala Gln Pro
 245 250 255
 Lys Glu Glu Ala Ser Asp Glu Leu Asp Pro Leu Ala Leu Phe Gly Gly
 260 265 270
 Ser Ala Ser Ala Pro Ala Ala Arg His Asp Asp Pro Leu Gly Leu Met
 275 280 285
 Gly Gly Ala Pro Leu Thr His Pro Asp Glu Ile Val Ala Asp Lys Pro
 290 295 300
 Glu Pro Lys Pro Glu Ala Gln Ala Ala Gln Glu Glu Asp Ala Leu Ala
 305 310 315 320
 Ser Ser Pro Leu Phe Asp Pro Glu Pro Thr Glu Pro Gln Asp Ala Pro
 325 330 335
 Arg Ala Glu Glu Glu Pro Ala Arg Pro Asp Tyr Ala Gly Phe Thr Met
 340 345 350
 Pro Thr Pro Gln Ala Val Ala Arg Ser Asn Ala Gln Ala Pro Lys Gly
 355 360 365

Arg Leu Arg Ile Asp Pro Val Lys Asn Ala Ala Ser Pro Ala Ala Ser
 370 375 380
 Ala Gln Thr Gly Glu Arg Gly Glu Val Leu Gln Gly Glu Leu Leu Glu
 385 390 395 400
 Ala Leu Leu Glu Gly Met Gly Leu Ser Glu Met Gln Pro Val Pro Gln
 405 410 415
 Phe Asp Arg Glu Asn Met Arg Gln Leu Gly Gln Ile Leu Gly Met Phe
 420 425 430
 Ser Gln Gly Thr Val Ala Leu Leu Ser Ser Arg Ser Ile Leu Lys Arg
 435 440 445
 Gly Val Lys Ala Asp Met Thr Met Val Leu Asp Asp Ala Asn Asn Pro
 450 455 460
 Phe Lys Leu Leu Pro Thr Gly Lys Thr Val Leu Ile Gln Met Phe Gly
 465 470 475 480
 Thr Pro Met Pro Gly Phe Met Pro Pro Thr Lys Ser Val Arg Asp Ala
 485 490 495
 Leu Ile Asp Leu Gln Ala His Gln Leu Gly Met Ile Ser Gly Ile Arg
 500 505 510
 Ala Ile Ile Ala Ala Met Leu Gln Ser Phe Asn Pro Glu Gln Leu Glu
 515 520 525
 Glu Gln Ala Lys Gln Asn Gly Met Thr Ser Arg Leu Ala Leu Pro Gly
 530 535 540
 Ser Arg Lys Ala Ala Leu Trp Asp Tyr Phe Val Arg Ser Tyr Gly Glu
 545 550 555 560
 Thr Ala Gly Glu Ile Glu Asp Asp Phe His Thr Leu Phe Gly Glu Ala
 565 570 575
 Phe Leu His Ala Tyr Asp Met Glu Val Asn Gln Tyr Lys Asp Ser Gln
 580 585 590
 Ser Gly Ser Glu Glu Lys
 595

<210> 7681

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 7681

Leu Pro Gln Ala Glu Arg Val Ala Val Pro Gly Pro Ala Val Pro Gly
 1 5 10 15
 Val Thr Glu Thr Gly Gln His Arg Arg Val Arg Leu Ala Gly Ala Leu
 20 25 30
 Cys Gly Val Gly Pro Tyr Gly Asn Leu Arg Gln Leu Pro Ser Gly Ala
 35 40 45
 Leu Ala Ile Gly Ala Ser Ala Asp Ser Gly Ile Asn Met Ala Gln Gly
 50 55 60
 Arg Tyr Ala Ile Phe Leu Asn Ser Gly Asp Val Phe His Glu Asn Val
 65 70 75 80
 Ala Leu Phe Ala Arg Gln Leu Ala Arg Gln Lys Glu Asp Ala Met Phe
 85 90 95
 Ile Gly Asp Ala Leu Leu Asp Phe Gly Glu Gly Lys Lys Val Leu Arg
 100 105 110
 Gly Ala Lys Pro Gly Trp Tyr Ile Tyr His Ser Leu Pro Ala Ser His
 115 120 125
 Gln Ala Ile Phe Phe Pro Arg Arg Gly Leu Lys Phe Ser Met Arg Arg
 130 135 140
 Cys Arg Ser Ile Val Phe
 145 150

<210> 7682

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 7682

Thr Gly Gly Phe Ser Gly Ser Asn Ser Lys Pro Asn Ala Lys Ser Phe
 1 5 10 15
 Thr Val Thr Thr Tyr Phe Phe Tyr Phe Phe Pro Thr Ser Ala Val Pro
 20 25 30
 Arg Phe His Pro Ala Arg Leu Ile Cys Leu Cys Asp Gly Val Cys Leu
 35 40 45
 Pro Leu Asp Leu Phe Cys Asp Lys Gly Thr Phe Gln Asp Met Lys Lys
 50 55 60
 Ile Leu Ile Ile Val Pro Asp Gly Gly Met Leu Phe Glu Ala Ala Gly
 65 70 75 80
 Ile Ala Asp Ile Leu Met Gln Ala Asn Arg Leu His Pro Asp Gly Leu
 85 90 95
 Ala Gln Pro Arg Tyr Cys Ile Ile Ile Ala Thr Thr Gln Pro His Leu
 100 105 110
 Val Ile His Gly Gln Ser Gly Leu Asn Leu Leu Ala Asp Tyr Arg Leu
 115 120 125
 Pro Glu Leu Asp Pro Arg Glu Pro Leu Asp Thr Ile Ile Ile Thr Gly
 130 135 140
 Arg Gly Met Asn Glu Gln Glu Ser Thr Ala Val Val Asp Trp Leu His
 145 150 155 160
 Leu Ala Ala Pro His Ala Arg Arg Val Ala Ser Val Cys Gly Gly Ala
 165 170 175
 Leu Leu Leu Ala Gln Ala Gly Leu Leu Asp Gly Arg Arg Ala Thr Thr
 180 185 190
 His Trp Arg Leu Leu Glu Thr Leu Lys Thr Arg Tyr Pro Ala Val Asn
 195 200 205
 Val Glu Gly Gly Pro Leu Tyr Ile Gln Asp Gly Pro Val Trp Thr Ser
 210 215 220
 Gly Gly Val Ser Ser Gly Phe Asp Leu Thr Leu Ala Leu Val Glu Asp
 225 230 235 240
 Asp Tyr Gly Phe Thr Leu Ala Arg Asn Val Ala Gln Asp Met Val Met
 245 250 255
 Tyr Leu Arg Arg Pro Gly Gly Gln Leu Gln Phe Ser Arg Tyr Lys Leu
 260 265 270
 Glu Gln Ser Gly Ala Thr Gly Pro Val Ser Glu Leu Gln Ser Trp Ile
 275 280 285
 Leu Gln Asn Leu Thr Ala Asp Leu Cys Val Glu Arg Leu Ala Glu Arg
 290 295 300
 Val Ala Met Ser Pro Arg Asn Phe Thr Arg Val Phe Thr Arg Asp Val
 305 310 315 320
 Gly Val Pro Pro Ala Arg Tyr Val Thr Glu Ala Arg Leu Ala Ala Ala
 325 330 335
 Arg Gln Leu Leu Glu Gln Thr Ser Tyr Pro Leu Glu Val Ile Ala Glu
 340 345 350
 Lys Ser Gly Phe Gly Thr Ser Ile Asn Leu Arg Arg Val Phe Glu Lys
 355 360 365
 Gln Leu His Leu Thr Pro Gly Glu Tyr Arg Gln Arg Phe His Cys Arg
 370 375 380
 Arg Met Ala
 385

<210> 7683

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7683

Ser Asp Pro Phe Leu Ser Phe Thr Pro Ser Asp Leu Thr Pro Lys Val

1				5					10				15				
Thr	Pro	Asp	Asn	Thr	Asp	Lys	Glu	Cys	Ile	Met	Val	Lys	Val	Gly	Ile		
			20					25					30				
Asn	Gly	Phe	Gly	Arg	Ile	Gly	Arg	Asn	Val	Leu	Arg	Ala	Ala	Leu	Gly		
		35					40					45					
Asn	Pro	Asp	Leu	Gln	Ile	Val	Ala	Ile	Asn	Asp	Leu	Thr	Asp	Ser	Arg		
		50				55					60						
Thr	Leu	Ala	His	Leu	Leu	Lys	Tyr	Asp	Ser	Leu	Leu	Gly	Thr	Leu	Pro		
65					70					75					80		
Val	Pro	Val	Glu	Ala	Ala	Asp	Gly	Ala	Leu	Gln	Val	Asp	Gly	Gln	Arg		
			85					90						95			
Ile	Thr	Val	Phe	Ser	Glu	Arg	Asp	Pro	Ala	Asn	Ile	Ala	Trp	Lys	Asp		
		100						105					110				
Ala	Gly	Val	Glu	Val	Val	Ile	Glu	Ala	Thr	Gly	Phe	Phe	Thr	Glu	Arg		
		115					120					125					
Glu	Lys	Ala	Ala	Val	His	Ile	Thr	Ser	Gly	Gly	Ala	Lys	Arg	Val	Ile		
		130				135					140						
Ile	Ser	Ala	Pro	Ala	Lys	Asn	Asp	Asp	Leu	Thr	Val	Val	Met	Gly	Val		
145					150					155					160		
Asn	His	Thr	Leu	Tyr	Asp	Pro	Ala	Gln	His	Phe	Val	Val	Ser	Asn	Gly		
			165					170						175			
Ser	Cys	Thr	Thr	Asn	Gly	Leu	Ala	Pro	Ala	Ala	Gln	Val	Leu	His	Gln		
			180					185					190				
Gln	Phe	Gly	Ile	Glu	His	Gly	Leu	Met	Asn	Thr	Thr	His	Ala	Tyr	Thr		
		195					200					205					
Asn	Ser	Gln	Ala	Leu	His	Asp	Gln	Pro	Glu	Lys	Asp	Leu	Arg	Gly	Ala		
		210				215					220						
Arg	Ala	Ala	Ala	Leu	Ser	Ile	Val	Pro	Tyr	Ser	Ser	Gly	Ala	Ala	Lys		
225					230					235					240		
Ala	Leu	Gly	Lys	Val	Ile	Pro	Glu	Leu	Asp	Gly	Lys	Leu	Thr	Gly	Tyr		
			245					250						255			
Ser	Leu	Arg	Val	Pro	Val	Pro	Val	Val	Ser	Ile	Val	Asp	Leu	Thr	Val		
			260					265					270				
Thr	Leu	Ser	Arg	Asn	Val	Thr	Ala	Glu	Glu	Val	Asn	Asp	Ala	Phe	Arg		
		275					280					285					
Gln	Ala	Ala	Ile	Ser	Gly	Pro	Leu	Lys	Gly	Ile	Leu	Gly	Tyr	Ser	Asp		
		290				295					300						
Glu	Pro	Leu	Val	Ser	Arg	Asp	Tyr	Gln	Gly	Asp	Pro	Arg	Ser	Ser	Ile		
305					310					315					320		
Ile	Asp	Gly	Leu	Ser	Thr	Leu	Val	Ile	Gly	Gly	Asn	Met	Val	Lys	Ile		
			325					330						335			
Leu	Ser	Trp	Tyr	Asp	Asn	Glu	Trp	Gly	Phe	Ser	Asn	Arg	Leu	Val	Asp		
			340					345					350				
Leu	Ala	Val	Leu	Met	Asp	Lys	Lys	Gly	Leu								
		355					360										

<210> 7684

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 7684

Gln	Gln	Arg	Ser	Arg	Cys	Ser	Val	Lys	Thr	Gly	Asp	Glu	Pro	Met	Ile		
1				5					10					15			
Arg	Pro	Arg	Ala	Arg	Arg	Pro	Ala	Phe	Leu	Pro	Leu	Ala	Leu	Ala	Gly		
			20					25					30				
Ala	Leu	Leu	Gly	Val	Thr	Ala	Phe	Gly	Tyr	Ala	Glu	Asp	Gln	Pro	Thr		
		35					40				45						
Ser	Gln	Gln	Ser	Ser	Pro	Asp	Ile	Leu	Leu	Gly	Pro	Leu	Phe	Asn	Asp		
		50				55				60							
Val	Gln	Ser	Ala	Lys	Leu	Phe	Pro	Asp	Gln	Lys	Thr	Phe	Ala	Asp	Ala		

65					70					75					80
Val	Pro	Lys	Ser	Asp 85	Pro	Leu	Met	Ile	Leu 90	Ala	Asp	Tyr	Arg	Met 95	Gln
His	Thr	Gln	Ser 100	Gly	Phe	Asp	Leu	Arg 105	His	Phe	Val	Glu	Met 110	Asn	Phe
Ile	Leu	Pro 115	Lys	Glu	Gly	Glu	Lys 120	Tyr	Val	Pro	Pro	Glu	Gly	Gln	Ser
Leu	Arg 130	Glu	His	Ile	Asp	Asp 135	Leu	Trp	Pro	Val	Leu	Thr	Arg	Thr	Thr
Asp 145	Lys	Ala	Asn	Lys	Trp 150	Asp	Ser	Leu	Leu	Pro 155	Leu	Pro	Lys	Pro	Tyr 160
Val	Val	Pro	Gly	Gly 165	Arg	Phe	Arg	Glu	Val 170	Tyr	Tyr	Trp	Asp	Ser 175	Tyr
Phe	Thr	Met	Leu 180	Gly	Leu	Ala	Glu	Ser 185	Gly	His	Trp	Asp	Lys 190	Ile	Gly
Asp	Met	Val 195	Asp	Asn	Phe	Ala	Tyr 200	Glu	Leu	Asp	Thr	Trp 205	Gly	His	Ile
Pro	Asn 210	Gly	Asn	Arg	Thr	Tyr 215	Tyr	Leu	Ser	Arg	Ser 220	Gln	Pro	Pro	Phe
Phe 225	Ser	Leu	Met	Val	Glu 230	Leu	Leu	Ala	Thr	His 235	Asp	Ser	Asp	Ala	Leu 240
Lys	Lys	Tyr	Arg	Pro 245	Gln	Met	Glu	Lys	Glu 250	Tyr	Ala	Tyr	Trp	Met 255	Glu
Gly	Ala	Asp	Gly 260	Leu	Gln	Pro	Gly	Gln 265	Ala	Asn	Lys	Arg	Val 270	Val	Lys
Leu	Asp	Asp 275	Gly	Ser	Ile	Leu	Asn 280	Arg	Tyr	Trp	Asp	Asp 285	Arg	Asp	Thr
Pro	Arg 290	Pro	Glu	Ser	Trp	Leu 295	Asp	Asp	Val	Thr	Thr 300	Ala	Lys	Asn	Asn
Pro 305	Asn	Arg	Pro	Ala	Thr 310	Glu	Ile	Tyr	Arg	Asp 315	Leu	Arg	Ser	Ala	Ala 320
Ala	Ser	Gly	Trp	Asp 325	Phe	Ser	Ser	Arg	Trp 330	Met	Asp	Asp	Pro	Gln 335	Lys
Leu	Gly	Thr	Ile 340	Arg	Thr	Thr	Ser	Ile 345	Val	Pro	Val	Asp	Leu 350	Asn	Ala
Leu	Met	Phe 355	Lys	Met	Glu	Lys	Leu 360	Leu	Ala	Arg	Ala	Ser 365	Gln	Glu	Asp
Gly	Asp 370	Thr	Ala	Ser	Ala	Ser	Lys 375	Tyr	Asp	Ala	Leu	Ala	Ser	Ala	Arg
Gln 385	Lys	Ala	Met	Glu	Ser 390	His	Leu	Trp	Asn 395	Asp	Lys	Glu	Gly	Trp	Tyr 400
Ala	Asp	Tyr	Asp	Leu 405	Lys	Thr	Arg	Lys	Val 410	Arg	Asn	Gln	Leu	Thr 415	Ala
Ala	Ala	Leu	Phe 420	Pro	Leu	Tyr	Val	Lys 425	Ala	Ala	Ser	Gln	Asp 430	Arg	Ala
Asp	Lys	Val 435	Ala	Ala	Ala	Ala	Ser 440	Ser	Arg	Leu	Leu	Lys 445	Pro	Gly	Gly
Ile	Ser 450	Thr	Thr	Thr	Ile	Asn 455	Ser	Gly	Gln	Gln	Trp	Asp 460	Ala	Pro	Asn
Gly 465	Trp	Ala	Pro	Leu	Gln 470	Trp	Val	Ala	Val	Glu 475	Gly	Leu	Gln	Asn	Tyr 480
Gly	Gln	Gln	Lys	Val 485	Ala	Met	Asp	Val	Thr 490	Trp	Arg	Phe	Leu	Lys 495	Asn
Val	Gln	His	Thr 500	Tyr	Asp	Arg	Glu	Lys 505	Lys	Leu	Val	Glu	Lys 510	Tyr	Asp
Val	Ser	Ser 515	Thr	Gly	Thr	Gly	Gly 520	Gly	Gly	Gly	Glu	Tyr 525	Pro	Leu	Gln
Asp	Gly 530	Phe	Gly	Trp	Ser	Asn 535	Gly	Val	Thr	Leu	Arg 540	Met	Leu	Asp	Met
Val 545	Cys	Pro	Lys	Glu	Lys 550	Pro	Cys	Asp	Thr	Val 555	Pro	Glu	Asn	Gln	Pro 560

Ala Ala Asn Asp Asp Val Ala Pro Ala Lys Gln Ala Ala Gln
 565 570 575

<210> 7685

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 7685

Thr Arg Ser Cys Val Met Pro Gly Ala Phe Pro Thr Glu Val Arg Gly
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 Ser Thr Ser Tyr Met Ser Glu Tyr Lys Ile Arg Gly Phe Asn Val Asp
 20 25 30
 Gln Glu Phe Tyr Asn Gly Leu Gln Leu Pro Tyr Asn Val Thr Gly Asn
 35 40 45
 Thr Lys Ala Arg Ile Asp Pro Leu Leu Ile Glu Ser Val Asp Ile Leu
 50 55 60
 Lys Gly Pro Ser Ser Val Leu Tyr Gly Gly Gly Ser Pro Gly Gly Leu
 65 70 75 80
 Val Asn Ile Gln Ser Lys Lys Pro Gln Lys Glu Ala Lys Thr Glu Leu
 85 90 95
 Gly Phe Asn Thr Gly Asn Arg Asn Leu Lys Glu Gly Tyr Leu Asp Ser
 100 105 110
 Thr Gly Gln Ile Ala Asn Ser Asp Trp Asn Tyr Arg Leu Leu Gly Lys
 115 120 125
 Ala Thr Glu Ser Asp Glu Gln Ala His Thr Thr Arg Tyr Glu Asn Tyr
 130 135 140
 Leu Val Ala Pro Ser Val Thr Trp Gln Pro Asp Asp Lys Thr Arg Leu
 145 150 155 160
 Thr Ile Asp Ala Leu Ala Gln Asn Thr Pro Ser Leu Thr Pro Ser Asp
 165 170 175
 Pro Met Pro Leu Ser Tyr Leu Arg Ser Lys Tyr Ala Asp Arg Arg Asp
 180 185 190
 Tyr Ala Gly Asp Glu Trp Ser Gly Phe Lys Gln Arg Gln Trp Met Leu
 195 200 205
 Gly Tyr Ser Phe Glu His Glu Phe Asp Ser Gly Trp Gly Phe Asn Gln
 210 215 220
 Lys Ala Arg Tyr Phe Asp Val Asp Thr His Gln Arg Ser Ala Tyr Ser
 225 230 235 240
 Thr Gly Thr Gly Ser Glu Val Tyr Gln Leu Asn Arg Phe Ala Tyr Thr
 245 250 255
 Thr Asp Glu Asp Leu Gln Ser Phe Asn Ile Asp Asn Gln Val Thr Arg
 260 265 270
 Thr Val Ala Leu Gly Asp Trp Lys His His Leu Leu Ala Gly Phe Asp
 275 280 285
 Tyr Gln Lys Leu Asn Ser His Phe His Tyr Arg Tyr Ala Ser Ser Thr
 290 295 300
 Pro Gly Ile Asp Met Arg His Pro Asp His Ser Gln Ile Asp Asn Asp
 305 310 315 320
 Ala Leu Gly Leu Glu Thr Ala Gln Lys Asn Arg Leu Ser Tyr Gln Gln
 325 330 335
 Asn Gly Tyr Tyr Leu Gln Asp Gln Ile Ala Phe Gly Gly Leu Asn Val
 340 345 350
 Leu Ala Ser Leu Arg Tyr Asp Asp Tyr Arg Ser Val Thr Thr Asn Tyr
 355 360 365
 Leu Gln Asn Gly Asp Lys Ala Trp Val Ser Gln Asp Arg Leu Thr Lys
 370 375 380
 Arg Leu Gly Ala Leu Tyr Ala Phe Asp Asn Gly Leu Ser Pro Phe Ile
 385 390 395 400
 Ser Tyr Ser Glu Gly Phe Ala Pro Val Ser Pro Gln Gly Thr Leu Thr
 405 410 415

Ala	Lys	Asp	Val	Lys	Pro	Thr	Thr	Ser	Lys	Gln	Val	Glu	Gly	Gly	Val
			420					425					430		
Lys	Tyr	Leu	Leu	Ala	Glu	Tyr	Ala	Thr	Thr	Phe	Thr	Ala	Ser	Val	Phe
		435					440					445			
Asn	Ile	Arg	Gln	Lys	Asn	Val	Val	Thr	Ser	Asp	Pro	Gly	Phe	Leu	Asn
	450					455					460				
Tyr	Arg	Gln	Thr	Gly	Glu	Val	Glu	Ser	Lys	Gly	Ala	Glu	Leu	Ser	Ala
465					470					475					480
Met	Ser	Arg	Pro	Thr	Asp	Asn	Leu	Thr	Leu	Ile	Ala	Asn	Tyr	Ala	Tyr
				485					490					495	
Thr	His	Ala	Ile	Asn	Thr	Glu	Asp	Asp	Lys	Tyr	Gln	Gly	Lys	Gly	Pro
			500					505					510		
Thr	Gln	Val	Pro	Glu	Asn	Ala	Phe	Asn	Leu	Trp	Gly	Asp	Tyr	Thr	Phe
		515					520					525			
Asp	Ser	Thr	Pro	Leu	Lys	Arg	Gly	Asn	Ala	Gly	Gly	Arg	Arg	Thr	Leu
	530					535					540				
His	Arg	Ala	Asp	Gly	Asp	Leu	Ala	Ser	Gln	Arg	Arg	Arg	Gln	Ala	Gly
545					550					555					560
Arg	Tyr	Asp	Ala	Val	Arg	Ser	Gly	Gly	Ile	Leu	Pro	His	Gly		
				565					570					575	

<210> 7686

<211> 1222

<212> PRT

<213> Enterobacter cloacae

<400> 7686

Gln	Tyr	Pro	Gly	Arg	Ala	Glu	Arg	Ile	Ala	Ala	Arg	Lys	Leu	Arg	Met
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Leu	Thr	Thr	Leu	Leu	Ser	Ile	Leu	Thr	Asn	Arg	Ile	Leu	Trp	Ser	Phe
			20					25					30		
Leu	Gly	Val	Thr	Ala	Leu	Ala	Ala	Val	Ile	Trp	Met	Ile	Gly	Pro	Leu
		35					40					45			
Leu	Ser	Ile	Val	Asp	Thr	Arg	Pro	Leu	Glu	Ser	Glu	Gln	Asn	Arg	Val
	50					55				60					
Ile	Ser	Ile	Ala	Val	Val	Tyr	Leu	Ile	Trp	Ala	Gln	Ser	His	Ile	Leu
65					70					75				80	
Pro	Arg	Leu	Tyr	Asn	Ala	Trp	Leu	Asn	Arg	Lys	Leu	Met	Asp	Lys	Leu
				85					90					95	
Asn	Glu	Asn	Thr	Ser	Pro	Glu	Ala	Ala	Asp	Pro	Gln	Lys	Arg	Leu	
		100					105					110			
Asn	Ser	Glu	Glu	Gln	Ile	Leu	Ala	Gly	Arg	Phe	Asp	Glu	Ala	Ala	Gln
		115					120					125			
Met	Leu	Lys	Lys	Ala	His	Phe	Ser	Lys	Ala	Gly	His	Gly	Ala	Gln	Trp
	130					135				140					
Thr	Gln	Arg	Phe	Ser	Thr	Gln	Tyr	Leu	Tyr	Gln	Leu	Pro	Trp	Tyr	Val
145					150					155				160	
Ile	Ile	Gly	Ala	Pro	Gly	Ser	Gly	Lys	Thr	Thr	Ala	Leu	Ala	Asn	Ser
				165					170					175	
Gly	Leu	Gln	Phe	Pro	Leu	Ala	Asp	Arg	Phe	Gly	Lys	Thr	Ala	Leu	Arg
			180				185						190		
Gly	Ile	Gly	Gly	Thr	Arg	Asn	Cys	Asp	Trp	Trp	Phe	Thr	Asn	Glu	Ala
		195					200					205			
Val	Leu	Leu	Asp	Thr	Ala	Gly	Arg	Tyr	Thr	Thr	Gln	Glu	Ser	Glu	Gln
	210					215					220				
Val	Gln	Asp	Ala	Gly	Glu	Trp	Leu	Glu	Phe	Ile	Asn	Leu	Leu	Arg	Lys
225					230					235				240	
Tyr	Arg	Arg	Arg	Gln	Pro	Ile	Asn	Gly	Val	Ile	Ile	Thr	Ile	Ser	Ile
				245					250					255	
Ser	Asp	Leu	Leu	Ser	Gln	Ser	Ala	Glu	Ala	Ser	Arg	Gln	Gln	Ala	Val
			260					265					270		

Asn	Leu	Arg	Gln	Arg	Leu	Ser	Glu	Leu	His	Glu	Gln	Leu	Gly	Ile	Arg
		275					280					285			
Phe	Pro	Val	Tyr	Val	Met	Val	Thr	Lys	Ala	Asp	Leu	Leu	Lys	Gly	Phe
	290					295					300				
Arg	Ala	Trp	Phe	Ala	Asp	Tyr	Asp	Lys	Ala	Gln	Arg	Asp	Gln	Ile	Trp
305					310					315					320
Gly	Phe	Thr	Leu	Pro	Trp	Glu	Gln	Thr	Lys	His	Ala	Asp	Tyr	Asp	Leu
				325					330					335	
Met	Gly	Asn	Phe	His	Gln	Glu	Phe	Ser	Leu	Leu	Gln	Gln	Arg	Leu	Asp
			340					345					350		
Ala	Gly	Leu	Pro	Glu	Thr	Met	Leu	Lys	Glu	His	Asp	Ala	Lys	Thr	Arg
		355					360					365			
Ala	Glu	Ala	Tyr	Leu	Phe	Pro	Gln	Glu	Phe	Ala	Ala	Leu	Arg	Pro	Leu
	370					375					380				
Leu	Ala	Asp	Tyr	Leu	Ser	Thr	Val	Phe	Ala	Arg	Ser	Asn	Phe	Glu	Thr
385					390					395					400
Glu	Phe	Ser	Pro	Arg	Gly	Ile	Tyr	Phe	Ala	Ser	Gly	Thr	Gln	Glu	Gly
				405					410					415	
Met	Pro	Phe	Asp	Arg	Val	Met	Gly	Glu	Leu	Asn	Arg	Ala	Leu	Ser	Leu
			420					425					430		
Pro	Glu	Gly	Glu	Glu	Ser	Thr	Arg	Trp	Asp	Ser	Val	Ser	Lys	Glu	Ala
		435						440				445			
Pro	Ile	Pro	Gly	Ala	Lys	Gly	Gln	Ser	Phe	Phe	Ile	Lys	Asn	Leu	Leu
	450					455					460				
Gln	Asn	Val	Ile	Phe	Gln	Glu	Ala	Gly	Ile	Ala	Gly	Glu	Asn	Arg	Trp
465					470					475					480
Trp	Glu	Leu	Arg	Asn	Arg	Ala	Val	Met	Trp	Ser	Gly	Tyr	Ala	Ala	Leu
				485					490					495	
Leu	Ala	Leu	Leu	Val	Ile	Leu	Gly	Gly	Leu	Trp	Leu	Thr	Ser	Tyr	Ala
			500					505					510		
Lys	Asn	Lys	Ala	Tyr	Leu	Glu	Glu	Val	Asp	Ala	Lys	Val	Pro	Met	Leu
		515					520					525			
Glu	Gln	Gln	Ser	Lys	Ala	Leu	Gln	Asn	Gln	Pro	Gln	Arg	Asp	Leu	Phe
	530					535					540				
Ala	Leu	Leu	Pro	Leu	Leu	Asn	Ser	Leu	Val	Asp	Leu	Pro	Lys	Ser	Asp
545					550					555					560
Ala	Phe	Asp	Val	Asn	Asp	Pro	Pro	Val	Ser	Arg	Arg	Met	Gly	Leu	Tyr
				565					570					575	
Arg	Gly	Asp	Asp	Val	Ser	Asp	Ala	Ser	Gln	Ser	Leu	Tyr	Gln	Lys	Ala
			580					585					590		
Leu	Asp	Gln	Met	Leu	Leu	Pro	Ala	Val	Ala	Met	His	Ile	Thr	Thr	Trp
		595					600					605			
Leu	Arg	Asn	Asp	Asn	Gly	Ser	Asp	Val	Glu	Tyr	Ser	Tyr	Glu	Ala	Leu
	610				615						620				
Lys	Ala	Tyr	Gln	Met	Leu	Tyr	Gln	Pro	Lys	His	Tyr	Asp	Gly	Lys	Phe
625					630					635					640
Leu	His	Ser	Trp	Val	Met	Leu	Asn	Leu	Gln	Arg	Asn	Leu	Pro	Gln	Asn
				645						650				655	
Val	Thr	Gln	Ala	Gln	Leu	Gln	Glu	Leu	Glu	Trp	His	Leu	Thr	Gln	Leu
			660					665					670		
Leu	Glu	Pro	Lys	Ile	Gln	Ala	Ser	Pro	Tyr	Ala	Gln	Asp	Glu	Asp	Leu
		675					680					685			
Val	Ala	Arg	Glu	Arg	Ala	Leu	Ile	Asn	Gln	Gln	Pro	Leu	Ser	Thr	Arg
	690					695					700				
Val	Tyr	Gly	Arg	Leu	Lys	Arg	Leu	Leu	Glu	His	Asp	Glu	Asn	Leu	Lys
705					710					715					720
Pro	Val	Ser	Leu	Ser	Asp	Leu	Gly	Gly	Pro	Gln	Ser	Glu	Leu	Val	Phe
				725					730					735	
Ser	Arg	Lys	Ser	Gly	Lys	Pro	Val	Ser	Glu	Gly	Val	Pro	Gly	Leu	Tyr
			740					745					750		
Thr	Pro	Asp	Gly	Tyr	Trp	Lys	Ser	Phe	Asn	Asp	Gln	Ile	Asp	Ser	Val

		755					760				765				
Thr	Thr	Ala	Leu	His	Glu	Asp	Asp	Ala	Trp	Val	Leu	Gly	Ala	Ala	Thr
	770					775					780				
Ala	Gln	Glu	Asp	Lys	Gln	Gln	Ile	Asp	Asn	Ala	Val	Arg	Gln	Leu	Tyr
785					790						795				800
Met	Arg	Asp	Phe	Ile	Val	Asn	Trp	Asp	Arg	Phe	Leu	Ala	Asp	Ile	Gln
				805					810					815	
Leu	Asn	Asn	Ser	Ala	Asp	Leu	Ser	Gln	Arg	Ile	Asn	Thr	Ala	Arg	Leu
			820					825					830		
Leu	Ser	Gly	Thr	Asn	Ser	Pro	Leu	Arg	Arg	Leu	Val	Leu	Asn	Leu	Gly
		835					840					845			
Lys	Val	Leu	Thr	Leu	Ser	Arg	Thr	Ala	Pro	Ala	Pro	Glu	Asp	Ala	Gln
	850					855					860				
Lys	Ala	Glu	Asp	Gln	Ser	Asn	Arg	Ala	Thr	Arg	Thr	Leu	Glu	Ala	Leu
865					870					875					880
Phe	Ser	Asn	Gly	Asp	Asn	Ala	Pro	Thr	Gln	Gly	Ala	Val	Val	Thr	Gln
			885						890					895	
Ala	Pro	Glu	Gln	Leu	Val	Thr	Asp	His	Tyr	Ala	Pro	Met	Ile	Glu	Leu
			900					905					910		
Ala	Gln	Pro	Leu	Glu	Lys	Gly	Gly	Lys	Thr	Ile	Val	Phe	Asp	Asp	Phe
	915						920					925			
Leu	Lys	Gln	Val	Asp	Glu	Leu	Tyr	Arg	Tyr	Leu	Thr	Ala	Val	Gln	Asp
	930					935					940				
Ala	Ala	Asn	Ser	Gly	Met	Pro	Ala	Pro	Gly	Gly	Asp	Ala	Ile	Ser	Arg
945					950					955					960
Leu	Gln	Ala	Ser	Ala	Gly	Arg	Leu	Pro	Gly	Gly	Leu	Gln	Thr	Met	Phe
			965						970					975	
Ser	Asn	Met	Ala	Val	Gly	Ala	Ser	Ser	Asp	Thr	Gln	Arg	Arg	Asp	Leu
		980						985					990		
Glu	Asn	Val	Arg	Lys	Arg	Ile	Asn	Val	Glu	Val	Gly	Gly	Phe	Cys	Arg
	995						1000					1005			
Gln	Ala	Ile	Ala	Gly	Arg	Tyr	Pro	Leu	Val	Arg	Ser	Ala	Ser	Thr	Glu
	1010					1015					1020				
Val	Thr	Pro	Asp	Asp	Leu	Ala	Arg	Met	Phe	Ala	Pro	Gly	Thr	Gly	Leu
1025					1030					1035					1040
Met	Asp	Thr	Phe	Phe	Arg	Asp	Asn	Leu	Thr	Asn	Lys	Val	Asp	Thr	Thr
			1045						1050					1055	
Gln	Ala	Asn	Trp	Arg	Phe	Met	Pro	Gly	Ile	Asp	Gly	Lys	Thr	Leu	Pro
		1060					1065					1070			
Gly	Ser	Glu	Gly	Leu	Leu	Arg	Pro	Phe	Gln	Gln	Ala	Gln	Ser	Val	Arg
		1075					1080				1085				
Asp	Ala	Phe	Phe	Ala	Asn	Gly	Ala	Thr	Thr	Pro	Ser	Phe	Lys	Val	Thr
	1090					1095					1100				
Val	Arg	Thr	Val	Arg	Met	Asp	Asn	Thr	Ile	Leu	Asn	Leu	Thr	Leu	Asp
1105					1110					1115					1120
Val	Asp	Gly	Gln	Leu	Leu	Arg	Tyr	Ser	His	Gly	Pro	Gln	Ala	Val	Gln
			1125						1130					1135	
Ile	Met	Thr	Trp	Pro	Gly	Pro	Gly	Gly	Thr	Asn	Gln	Val	Arg	Met	Gln
			1140					1145					1150		
Leu	Gly	Leu	Ala	Asn	Gly	Ser	Thr	Ala	Thr	Leu	Val	Thr	Asn	Gly	Ser
		1155					1160					1165			
Trp	Ala	Leu	Asn	Arg	Phe	Phe	Asp	Lys	Ala	Arg	Thr	Ser	Pro	Gly	Ala
	1170					1175					1180				
Gly	Ser	Leu	Ser	Arg	Gln	Ala	Thr	Phe	Asn	Val	Asp	Gly	His	Gln	Val
1185					1190					1195					1200
Thr	Leu	Glu	Phe	Ala	Pro	Asn	Ser	Ile	Arg	Asn	Pro	Phe	Gln	Leu	Pro
			1205						1210					1215	
Arg	Phe	Ser	Cys	Pro											
			1220												

<210> 7687

<211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 7687

Lys	Gly	Val	Thr	Leu	Gly	Gly	Gly	Ala	Arg	Tyr	Thr	Gly	Pro	Met	Glu
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Ile	Ser	Pro	Ala	Asn	Asp	Ala	Gly	Lys	Leu	Gly	Gly	Thr	Thr	Gln	Tyr
			20					25				30			
Asp	Leu	Ala	Ala	Ser	Tyr	Arg	Met	Gly	Glu	Leu	Ala	Pro	Ser	Leu	Glu
		35					40				45				
Gly	Leu	Thr	Leu	Lys	Ala	Ser	Ala	Gln	Asn	Val	Thr	Asn	Lys	Glu	Thr
	50					55					60				
Leu	Thr	Cys	Tyr	Asp	Ala	Thr	Asn	Cys	Trp	Ile	Gly	Arg	Asp	Arg	Thr
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Phe	Gln	Val	Gly	Ala	Ser	Tyr	Ser	Phe							
				85					90						

<210> 7688
 <211> 423
 <212> PRT
 <213> Enterobacter cloacae

<400> 7688

Pro	Asp	Arg	Ile	Ile	Lys	Arg	Ala	Leu	Asn	Met	Gln	Glu	Arg	Gln	Asp
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Thr	Gly	Ser	Asp	Ala	Val	Phe	Thr	Gly	Ala	Ser	Gly	Asn	Asn	Gln	Leu
			20					25				30			
Val	Ala	Ala	Ala	Asn	Pro	Leu	Leu	Asn	Ala	Ile	Pro	Gln	Ile	Arg	His
		35					40				45				
Ser	Val	Ser	His	Asp	Asp	Gln	Val	Gly	Leu	Arg	Gln	Arg	Leu	Ile	Asp
	50					55					60				
Glu	Ile	Arg	Arg	Phe	Glu	Val	Arg	Cys	Gln	Gln	Ala	Gly	Leu	Pro	Tyr
65				70					75						80
Glu	Val	Ile	Val	Gly	Ala	Arg	Tyr	Cys	Leu	Cys	Thr	Ala	Leu	Asp	Glu
				85				90						95	
Ala	Ala	Ala	Leu	Thr	Pro	Trp	Gly	Ser	Ser	Gly	Val	Trp	Ser	Ser	Asn
			100				105						110		
Gly	Leu	Leu	Val	Thr	Phe	His	Asn	Glu	Thr	Trp	Gly	Gly	Glu	Lys	Phe
		115					120					125			
Phe	Gln	Leu	Leu	Ala	Arg	Leu	Ser	Gln	Asn	Pro	Arg	Glu	His	Ile	Leu
		130				135					140				
Leu	Leu	Glu	Met	Ile	Asn	Tyr	Cys	Leu	Leu	Leu	Gly	Phe	Glu	Gly	Arg
145				150					155						160
Tyr	Arg	Val	Leu	Asp	Asn	Gly	Arg	Thr	Gln	Leu	Glu	Thr	Ile	Lys	Gln
			165					170						175	
Arg	Leu	Trp	Gln	Met	Ile	Arg	Gly	Val	Arg	Gly	Ser	Tyr	Pro	Pro	Pro
		180					185						190		
Leu	Ser	Pro	His	Pro	Glu	Asp	Arg	Pro	Val	Leu	Arg	Lys	Leu	Trp	Arg
		195					200					205			
Pro	Met	Ile	Pro	Leu	Trp	Ala	Cys	Val	Ala	Leu	Val	Gly	Phe	Ile	Ala
		210				215					220				
Cys	Leu	Phe	Tyr	Ile	Val	Leu	Asn	Trp	Arg	Leu	Gly	Asp	Asn	Thr	Ser
225				230						235					240
Pro	Val	Leu	Ala	Lys	Ile	Tyr	Gln	Ser	Gln	Leu	Pro	Glu	Thr	Thr	Ile
				245					250					255	
Gln	Gln	Pro	Ala	Arg	Gln	Leu	Pro	Ala	Val	Leu	Asn	Leu	Arg	Gly	Phe
			260					265					270		
Leu	Lys	Pro	Glu	Ile	Asp	Ala	Gly	Leu	Val	Ala	Val	Lys	Asp	Glu	Ala
		275					280					285			
Asp	Arg	Ser	Val	Val	Ile	Leu	Lys	Gly	Asp	Gly	Leu	Phe	Ala	Ser	Ala

290		295		300
Ser Thr Val Val Arg Asp	Arg Tyr Glu Pro Val Ile Asp Arg Ile Ala			
305	310	315		320
Gln Ala Met Asn Asn Val Ser Gly Lys Ile Leu Val Val Gly Tyr Ser				
	325	330		335
Asp Asn Val Pro Ile Arg Ser Ala Arg Phe Ala Ser Asn Tyr Glu Leu				
	340	345		350
Ser Leu Glu Arg Ala Arg Ser Val Gln Lys Gln Leu Gln Gly Ser Leu				
	355	360		365
Ser Gln Pro Glu Arg Val Lys Ala Glu Gly Arg Gly Glu Ile Asn Pro				
	370	375		380
Val Ala Pro Asn Thr Thr Pro Glu Asn Arg Ala Arg Asn Arg Arg Val				
385	390	395		400
Glu Ile Thr Leu Leu Val Ser Pro Asp Asn Thr Gln Ala Glu Leu Asn				
	405	410		415
Gly Leu Pro Gln Gly Asn				
	420			

<210> 7689

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 7689

Ser Arg Arg Lys Lys Ser Val Trp Trp Ile Thr Ala Cys Met Thr Ala				
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Ile Val Asn Phe Ala Pro Leu Arg Ala Ile Pro Val Lys Gly Val Asn				
	20	25	30	
Arg Trp Ser Ser Thr Val Arg Thr Met Arg Ser Phe Leu Lys Arg Thr				
	35	40	45	
Leu Cys Ala Gln Ser Arg Ser Thr Pro Leu Leu Asn Phe Ser Thr Gly				
	50	55	60	
Ile Thr Asp Tyr Cys Phe Pro Pro Glu Val Glu Ile Pro Met Tyr Gln				
65	70	75	80	
Val Val Ala Ser Asp Leu Asp Gly Thr Leu Leu Ser Pro Asp His Thr				
	85	90	95	
Leu Ser Pro Tyr Ala Lys Glu Thr Leu Lys Leu Leu Thr Ala Arg Gly				
	100	105	110	
Val Asn Phe Val Phe Ala Thr Gly Arg His His Val Asp Val Gly Gln				
	115	120	125	
Ile Arg Asp Asn Leu Glu Ile Lys Ser Tyr Met Ile Thr Ser Asn Gly				
	130	135	140	
Ala Arg Val His Asp Thr Asp Gly Asn Leu Ile Phe Thr His Asn Leu				
145	150	155	160	
Asp Arg Asp Ile Ala Thr Asp Leu Phe Gly Ile Val His Asn Asn Pro				
	165	170	175	
Asp Ile Val Thr Asn Val Tyr Arg Asp Glu Trp Phe Met Asn Arg				
	180	185	190	
His Arg Pro Glu Glu Met Arg Phe Phe Lys Glu Ala Val Phe Gln Tyr				
	195	200	205	
Ser Leu Tyr Glu Pro Gly Leu Leu Glu Pro Glu Gly Ile Ser Lys Val				
	210	215	220	
Phe Phe Thr Cys Val Asn His Glu Glu Leu Leu Pro Leu Glu Gln Ala				
225	230	235	240	
Ile Asn Ala Arg Trp Gly Asp Arg Val Asn Val Ser Phe Ser Thr Leu				
	245	250	255	
Thr Cys Leu Glu Val Met Ala Gly Gly Val Ser Lys Gly His Ala Leu				
	260	265	270	
Glu Ala Val Ala Lys Arg Leu Gly Phe Asp Leu Lys Asp Cys Ile Ala				
	275	280	285	
Phe Gly Asp Gly Met Asn Asp Ala Glu Met Leu Ser Met Ala Gly Lys				

290		295		300
Gly Cys Ile Met Gln Asn Ala His Gln Arg Leu Lys Asp Leu His Pro				
305		310		315
Glu Leu Glu Val Ile Gly Thr Asn Ala Asp Asn Ala Val Pro Lys Tyr				
	325		330	335
Leu Arg Lys Leu Phe Leu Glu				
340				

<210> 7690

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 7690

Arg Arg Val Ser Ser Arg Cys Ile Val Val Thr Ser Ser Glu Trp Arg				
1	5	10	15	
Phe Pro Val Pro Ile Lys Pro Leu Val Thr Ala Gly Ile Glu Asn Val				
	20	25	30	
Leu Asn Ala Phe Leu Tyr Arg Ala Pro Ala Leu Lys Thr Ala Arg Gln				
	35	40	45	
Arg Leu Asn Gly Lys Val Leu Arg Ile Val Leu Lys Glu Phe Ser Thr				
	50	55	60	
Pro Leu Val Leu Val Phe Ser Glu Arg Gln Leu Asp Val Leu Gly Glu				
	65	70	75	80
Trp Glu Gly Glu Ala Asp Cys Ser Val Ile Thr His Met Ser Val Leu				
	85	90	95	
Pro Lys Leu Arg Asp Arg Gln Gln Met Thr Ala Leu Ile Arg Ser Gly				
	100	105	110	
Glu Leu Glu Val Glu Gly Asp Ile Gln Val Val Gln Asn Phe Val Ala				
	115	120	125	
Leu Ser Asp Gln Ala Glu Phe Asp Pro Ala Glu Leu Leu Ala Pro Tyr				
	130	135	140	
Ile Gly Asp Ile Ala Ala Glu Gly Ile Ser Lys Thr Leu Arg Thr Gly				
	145	150	155	160
Ser Ala Phe Leu Arg Lys Gly Leu Leu Arg Gln Gln Arg Tyr Ala Ala				
	165	170	175	
Glu Val Leu Thr Glu Glu Trp Arg Met Ala Pro Gly Pro Leu Glu Val				
	180	185	190	
Ala Trp Phe Ala Glu Glu Thr Ala Ala Val Glu Arg Ala Val Asp Ala				
	195	200	205	
Leu Thr Lys Arg Leu Glu Lys Leu Glu Gly Lys				
210	215	220		

<210> 7691

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 7691

Leu Ile Ile Tyr His Trp Gly Thr Arg Met Gly Gly Ile Ser Ile Trp				
1	5	10	15	
Gln Leu Val Ile Ile Ala Val Ile Val Val Leu Leu Phe Gly Thr Lys				
	20	25	30	
Lys Leu Gly Ser Ile Gly Ser Asp Leu Gly Ala Ser Ile Lys Gly Phe				
	35	40	45	
Lys Lys Ala Met Ser Asp Asp Glu Asn Lys Gln Glu Lys Thr Ser Gln				
	50	55	60	
Asp Ala Asp Phe Thr Ala Lys Ser Ile Ala Asp Lys Gln Asp Glu Ala				
	65	70	75	80
Lys Lys Glu Glu Ala Lys Arg His Asp Lys Glu Gln Val				
	85	90		

<210> 7692
 <211> 182
 <212> PRT
 <213> Enterobacter cloacae

<400> 7692
 Phe Val Phe Asp Ile Gly Phe Gly Glu Leu Leu Leu Val Phe Val Ile
 1 5 10 15
 Gly Leu Ile Val Leu Gly Pro Gln Arg Leu Pro Val Ala Val Lys Thr
 20 25 30
 Val Val Gly Trp Val Arg Ala Leu Arg Ser Leu Ala Thr Thr Val Gln
 35 40 45
 Asn Glu Leu Ala Gln Glu Leu Lys Leu Gln Glu Phe Gln Asp Ser Leu
 50 55 60
 Lys Lys Val Glu Lys Ala Ser Met Asp Asn Leu Thr Pro Glu Leu Lys
 65 70 75 80
 Ala Ser Met Asp Glu Leu Arg Glu Ala Ala Glu Ser Met Lys Arg Ser
 85 90 95
 Tyr Ser Ile Asn Asp Pro Glu Lys Ala Ser Asp Glu Ala Asn Thr Ile
 100 105 110
 His Asn Pro Val Val Lys Gly Ser Glu Glu Gln Arg Glu Gly Val Thr
 115 120 125
 Pro Ser Ser Ala Glu His Gln Ala Ala Ser Pro Glu Gln Ser Pro Gln
 130 135 140
 Glu Pro Glu Val Lys Lys Gln Val Pro Pro Glu Glu Pro Val Val Lys
 145 150 155 160
 Thr Ala Glu Val Lys Pro Ala Ala Pro Val Ser Glu Ser Ser Pro Ser
 165 170 175
 Ser Ser Asp Lys Ala
 180

<210> 7693
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (174)

<400> 7693
 Lys Leu Tyr Leu Ala Arg Leu Thr Trp Thr Ile Leu Val Ser Val Gly
 1 5 10 15
 His Ala Cys Ala Gly Val Arg Phe Leu Gly Glu Arg Ser Asn Lys Met
 20 25 30
 Ala Thr Gly Lys Ser Cys Ser Arg Trp Phe Ala Pro Ile Ala Ala Leu
 35 40 45
 Leu Met Val Val Ser Leu Ser Gly Cys Phe Asp Lys Glu Gly Asp Gln
 50 55 60
 Arg Lys Ala Phe Ile Asp Phe Leu Gln Asn Thr Val Met Arg Ser Gly
 65 70 75 80
 Glu Arg Leu Pro Thr Leu Thr Ala Asp Gln Lys Lys Gln Phe Gly Pro
 85 90 95
 Phe Val Ser Asp Tyr Ala Ile Leu Tyr Gly Tyr Ser Gln Gln Val Ser
 100 105 110
 Gln Ala Met Asp Ser Gly Ile Arg Pro Val Val Asp Ser Val Asn Ala
 115 120 125
 Ile Arg Val Pro Gln Asp Tyr Met Thr Gln Arg Glu Pro Leu Arg Gln
 130 135 140
 Ser Asn Gly Ala Leu Gly Val Leu Ser Gln Gln Leu Gln Asn Ala Gln

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<210> 7694
<211> 304
<212> PRT
<213> Enterobacter cloacae
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Glu	Thr	Ser	Ile	Val	Ala	Leu	Leu	Ile	Ile	Thr	Thr	Ile	Leu	Trp	Ala
1				5					10					15	
Phe	Ser	Phe	Ser	Leu	Ile	Gly	Glu	Tyr	Leu	Ala	Gly	Ser	Val	Asp	Ser
			20					25					30		
Tyr	Phe	Ser	Val	Leu	Met	Arg	Val	Gly	Leu	Ala	Ala	Leu	Val	Phe	Leu
		35					40					45			
Pro	Phe	Leu	Arg	Thr	Arg	Gly	Gln	Ser	Leu	Lys	Thr	Ile	Leu	Leu	Tyr
	50					55					60				
Met	Leu	Val	Gly	Ala	Met	Gln	Leu	Gly	Ile	Met	Tyr	Leu	Phe	Ser	Phe
65				70						75					80
Arg	Ala	Tyr	Val	Tyr	Leu	Ser	Val	Ser	Glu	Phe	Leu	Leu	Phe	Thr	Val
				85					90					95	
Leu	Thr	Pro	Leu	Tyr	Ile	Thr	Leu	Ile	Tyr	Asp	Leu	Leu	Ser	Arg	Arg
			100					105					110		
Arg	Leu	Arg	Trp	Gly	Tyr	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Val	Ile	Gly
		115					120					125			
Ala	Ala	Ile	Ile	Arg	Tyr	Asp	Lys	Val	Ser	Asp	His	Phe	Trp	Thr	Gly
	130					135					140				
Leu	Met	Phe	Val	Gln	Leu	Ala	Asn	Ile	Ser	Phe	Ala	Ile	Gly	Met	Val
145				150						155					160
Gly	Tyr	Lys	Arg	Leu	Met	Glu	Thr	Arg	Pro	Met	Pro	Gln	His	Asn	Ala
				165					170					175	
Phe	Ala	Trp	Phe	Tyr	Met	Gly	Ala	Ala	Ile	Val	Ala	Ile	Ala	Ala	Trp
			180					185					190		
Phe	Met	Leu	Gly	Asn	Pro	Gln	Lys	Leu	Pro	Thr	Thr	Pro	Val	Gln	Trp
		195					200					205			
Ser	Val	Leu	Val	Trp	Leu	Gly	Val	Val	Ala	Ser	Gly	Leu	Gly	Tyr	Phe
	210					215					220				
Met	Trp	Asn	Tyr	Gly	Ala	Thr	Gln	Val	Asp	Ala	Gly	Thr	Leu	Gly	Ile
225				230						235					240
Met	Asn	Asn	Val	His	Val	Pro	Ala	Gly	Leu	Leu	Val	Asn	Leu	Ala	Ile
				245					250					255	
Trp	Gln	Glu	Gln	Pro	His	Trp	Pro	Ser	Phe	Leu	Ile	Gly	Gly	Thr	Val
			260					265					270		
Ile	Leu	Ala	Ser	Leu	Trp	Val	His	Arg	Arg	Trp	Val	Ala	Pro	Arg	Ser
		275					280					285			
Ala	Gln	Thr	Glu	Asp	Gly	Arg	Thr	Arg	Gly	Ser	Ala	Leu	Ser	Glu	
	290					295					300				

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<210> 7695
<211> 763
<212> PRT
<213> Enterobacter cloacae
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Ile	Thr	Asn	Phe	Tyr	Lys	Gly	Tyr	Ala	Met	Thr	Ile	Arg	Thr	His	Thr
1				5					10					15	
Leu	Gly	Phe	Pro	Arg	Val	Gly	Leu	Arg	Arg	Glu	Leu	Lys	Lys	Ala	Gln
			20					25					30		
Glu	Ser	Tyr	Trp	Ala	Gly	Asn	Ala	Thr	Arg	Glu	Glu	Leu	Leu	Ala	Val
		35					40					45			

Gly	Arg	Glu	Leu	Arg	Ala	Arg	His	Trp	Asp	Gln	Gln	Lys	Gln	Ala	Gly
50						55					60				
Val	Asp	Leu	Leu	Pro	Val	Gly	Asp	Phe	Ala	Trp	Tyr	Asp	His	Val	Leu
65					70					75					80
Thr	Thr	Ser	Leu	Leu	Leu	Gly	Asn	Val	Pro	Ala	Arg	His	Gln	Asn	Asn
			85						90					95	
Asp	Gly	Ser	Val	Asp	Ile	Asp	Thr	Leu	Phe	Arg	Ile	Gly	Arg	Gly	Arg
			100					105					110		
Ala	Pro	Thr	Gly	Glu	Pro	Ala	Ala	Ala	Ala	Glu	Met	Thr	Lys	Trp	Phe
		115					120					125			
Asn	Thr	Asn	Tyr	His	Tyr	Met	Val	Pro	Glu	Phe	Val	Lys	Gly	Gln	Gln
		130				135					140				
Phe	Lys	Leu	Thr	Trp	Thr	Gln	Leu	Leu	Asp	Glu	Val	Asp	Glu	Ala	Leu
145					150					155					160
Ala	Leu	Gly	His	Gln	Val	Lys	Pro	Val	Leu	Leu	Gly	Pro	Val	Thr	Tyr
			165						170					175	
Leu	Trp	Leu	Gly	Lys	Val	Lys	Gly	Glu	Gln	Phe	Asp	Arg	Leu	Ser	Leu
			180					185					190		
Leu	Asn	Asp	Ile	Leu	Pro	Val	Tyr	Lys	Gln	Val	Leu	Ile	Glu	Leu	Gly
		195					200					205			
Lys	Arg	Gly	Ile	Gln	Trp	Val	Gln	Ile	Asp	Glu	Pro	Ala	Leu	Val	Leu
		210				215					220				
Glu	Leu	Pro	Gln	Ala	Trp	Leu	Asp	Ala	Phe	Lys	Pro	Ala	Tyr	Asp	Ala
225					230					235					240
Leu	Thr	Gly	Gln	Val	Lys	Leu	Leu	Leu	Thr	Thr	Tyr	Phe	Glu	Gly	Val
			245						250					255	
Thr	Pro	Asn	Leu	Asp	Thr	Ile	Thr	Ala	Leu	Pro	Val	Gln	Gly	Leu	His
			260					265					270		
Val	Asp	Leu	Val	His	Gly	Lys	Asp	Asp	Val	Ala	Glu	Leu	His	Lys	Arg
		275					280					285			
Leu	Pro	Ala	Glu	Trp	Leu	Leu	Ser	Ala	Gly	Leu	Val	Asn	Gly	Arg	Asn
		290				295					300				
Val	Trp	Arg	Ala	Asp	Leu	Thr	Glu	Lys	Tyr	Ala	Gln	Ile	Lys	Asp	Ile
305					310					315					320
Val	Gly	Lys	Arg	Glu	Leu	Trp	Ile	Ala	Ser	Ser	Cys	Ser	Leu	Leu	His
			325						330					335	
Ser	Pro	Ile	Asp	Leu	Ser	Val	Glu	Thr	Arg	Leu	Asp	Pro	Glu	Val	Lys
			340					345					350		
Ser	Trp	Phe	Ala	Phe	Ala	Leu	Gln	Lys	Cys	Glu	Glu	Leu	Ala	Leu	Leu
		355					360					365			
Arg	Asp	Ala	Leu	Asn	Ser	Gly	Asp	Thr	Ala	Ala	Ile	Thr	His	Trp	Ser
		370				375					380				
Ala	Pro	Ile	Gln	Ala	Arg	Arg	His	Ser	Thr	Arg	Val	His	Asn	Pro	Ala
385					390					395					400
Val	Glu	Lys	Arg	Leu	Ala	Ala	Ile	Thr	Ala	Arg	Asp	Ser	Gln	Arg	Gln
			405						410					415	
Ser	Pro	Tyr	Glu	Val	Arg	Ala	Glu	Ala	Gln	Arg	Ala	Arg	Phe	Asn	Leu
			420					425					430		
Pro	Ala	Trp	Pro	Thr	Thr	Thr	Ile	Gly	Ser	Phe	Pro	Gln	Thr	Thr	Glu
		435					440					445			
Ile	Arg	Gly	Leu	Arg	Leu	Asp	Phe	Lys	Lys	Gly	Asn	Leu	Asp	Ala	Asn
		450				455					460				
His	Tyr	Arg	Thr	Gly	Ile	Ala	Glu	His	Ile	Lys	Gln	Ala	Ile	Val	Glu
465					470					475					480
Gln	Glu	Arg	Leu	Gly	Leu	Asp	Val	Leu	Val	His	Gly	Glu	Ala	Glu	Arg
			485						490					495	
Asn	Asp	Met	Val	Glu	Tyr	Phe	Gly	Glu	His	Leu	Asp	Gly	Phe	Val	Phe
			500					505					510		
Thr	Gln	Asn	Gly	Trp	Val	Gln	Ser	Tyr	Gly	Ser	Arg	Cys	Val	Lys	Pro
		515					520					525			
Pro	Val	Val	Ile	Gly	Asp	Val	Ser	Arg	Pro	Glu	Ala	Ile	Thr	Val	Glu

530	535	540
Trp Ala Lys Tyr Ala Gln Ser Leu Thr Asp Lys Pro Val Lys Gly Met		
545	550	555
Leu Thr Gly Pro Val Thr Ile Leu Cys Trp Ser Phe Pro Arg Glu Asp		
	565	570
Val Ser Arg Glu Thr Ile Ala Lys Gln Ile Ala Leu Ala Leu Arg Asp		
	580	585
Glu Val Ala Asp Leu Glu Ala Ala Gly Ile Gly Ile Ile Gln Ile Asp		
	595	600
Glu Pro Ala Leu Arg Glu Gly Leu Pro Leu Arg Arg Ser Asp Trp Asp		
	610	615
Ala Tyr Leu Gln Trp Gly Val Glu Ala Phe Arg Leu Asn Ala Ala Val		
625	630	635
Ala Lys Asp Asp Thr Gln Ile His Thr His Met Cys Tyr Cys Glu Phe		
	645	650
Asn Asp Ile Met Asp Ser Ile Ala Ala Leu Asp Ala Asp Val Ile Thr		
	660	665
Ile Glu Thr Ser Arg Ser Asp Met Glu Leu Leu Glu Ser Phe Glu Glu		
	675	680
Phe Asp Tyr Pro Asn Glu Ile Gly Pro Gly Val Tyr Asp Ile His Ser		
	690	695
Pro Asn Val Pro Ser Val Glu Trp Ile Glu Ser Leu Leu Gln Lys Ala		
705	710	715
Ala Gln Arg Ile Pro Ala Glu Arg Leu Trp Val Asn Pro Asp Cys Gly		
	725	730
Leu Lys Thr Arg Gly Trp Pro Glu Thr Arg Ala Ala Leu Ala Asn Met		
	740	745
Val Gln Ala Ala Gln Asn Leu Arg Gln Ala		
	755	760

<210> 7696

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7696

Ser Thr Val Leu Leu Leu Thr Asn Arg Pro Thr Glu Glu Ser Pro	
1	5
Met Ser Lys Ser Asp Val Phe His Leu Gly Leu Thr Lys Asn Asp Leu	
	20
Gln Gly Ala Thr Leu Ala Ile Val Pro Gly Asp Pro Glu Arg Val Glu	
	35
Lys Ile Ala Ala Leu Met Asp Lys Pro Val Lys Leu Ala Ala His Arg	
	50
Glu Phe Thr Thr Trp Arg Ala Glu Leu Asp Gly Lys Ala Val Ile Val	
65	70
Cys Ser Thr Gly Ile Gly Gly Pro Ser Thr Ser Ile Ala Val Glu Glu	
	85
Leu Ala Gln Leu Gly Ile Arg Thr Phe Leu Arg Ile Gly Thr Thr Gly	
	100
Ala Ile Gln Pro His Ile Asn Val Gly Asp Val Leu Val Thr Thr Ala	
	115
Ser Val Arg Leu Asp Gly Ala Ser Leu His Phe Ala Pro Met Glu Phe	
	130
Pro Ala Val Ala Asp Phe Glu Cys Thr Thr Ala Leu Val Glu Ala Ala	
145	150
Lys Ser Val Gly Ala Thr Thr His Val Gly Val Thr Ala Ser Ser Asp	
	165
Thr Phe Tyr Pro Gly Gln Glu Arg Tyr Asp Thr Phe Ser Gly Arg Val	
	180
Val Ser Arg Phe Lys Gly Ser Met Glu Glu Trp Gln Ser Met Gly Val	


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<210> 7697
<211> 277
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7698
<211> 505
<212> PRT
<213> Enterobacter cloacae
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<400> 7698
Ser Ala Tyr Arg Glu Ala Met Ile Asn Cys Met Lys Tyr His Asp Leu
1 5 10 15

Arg	Asp	Phe	Leu	Ala	Leu	Leu	Glu	Lys	Gln	Gly	Glu	Leu	Lys	Arg	Ile
			20					25					30		
Thr	Leu	Pro	Val	Asp	Pro	Tyr	Leu	Glu	Met	Thr	Glu	Ile	Ala	Asp	Arg
		35					40					45			
Thr	Leu	Arg	Ala	Gly	Gly	Pro	Ala	Leu	Leu	Phe	Glu	Asn	Pro	Lys	Gly
	50					55					60				
Tyr	Thr	Met	Pro	Val	Leu	Cys	Asn	Leu	Phe	Gly	Thr	Pro	Arg	Arg	Val
65				70						75					80
Ala	Leu	Gly	Met	Gly	Gln	Glu	Asp	Val	Thr	Ala	Leu	Arg	Glu	Val	Gly
				85					90					95	
Lys	Leu	Leu	Ala	Phe	Leu	Lys	Glu	Pro	Glu	Pro	Pro	Lys	Gly	Phe	Arg
			100					105					110		
Asp	Leu	Phe	Asp	Lys	Leu	Pro	Gln	Phe	Lys	Gln	Val	Leu	Asn	Met	Pro
		115					120					125			
Thr	Lys	Arg	Leu	Arg	Gly	Ala	Pro	Cys	Gln	Gln	Lys	Val	Leu	Glu	Gly
	130				135							140			
Asp	Ala	Val	Asp	Leu	Thr	Lys	Ile	Pro	Ile	Met	Gln	Cys	Trp	Pro	Glu
145					150						155				160
Asp	Ala	Ala	Pro	Leu	Ile	Thr	Trp	Gly	Leu	Thr	Val	Thr	Arg	Gly	Pro
				165					170					175	
His	Lys	Glu	Arg	Gln	Asn	Leu	Gly	Ile	Tyr	Arg	Gln	Gln	Leu	Ile	Gly
			180					185					190		
Lys	Asn	Lys	Leu	Ile	Met	Arg	Trp	Leu	Ser	His	Arg	Gly	Gly	Ala	Leu
	195						200					205			
Asp	Phe	Gln	Glu	Trp	Cys	Ala	Ala	His	Pro	Gly	Glu	Arg	Phe	Pro	Val
	210					215					220				
Ser	Val	Ala	Leu	Gly	Ala	Asp	Pro	Ala	Thr	Ile	Leu	Gly	Ala	Val	Thr
225				230						235					240
Pro	Val	Pro	Asp	Thr	Leu	Ser	Glu	Tyr	Ala	Phe	Ala	Gly	Leu	Leu	Arg
				245					250					255	
Gly	Thr	Lys	Thr	Glu	Val	Val	Lys	Cys	Ile	Ser	Asn	Asp	Leu	Glu	Val
			260					265					270		
Pro	Ala	Ser	Ala	Glu	Ile	Val	Leu	Glu	Gly	Tyr	Ile	Glu	Gln	Gly	Glu
		275					280					285			
Leu	Ala	Pro	Glu	Gly	Pro	Tyr	Gly	Asp	His	Thr	Gly	Tyr	Tyr	Asn	Glu
	290					295					300				
Val	Asp	Asn	Phe	Pro	Val	Phe	Thr	Val	Thr	His	Ile	Thr	Gln	Arg	Glu
305					310					315					320
Asp	Ala	Ile	Tyr	His	Ser	Thr	Tyr	Thr	Gly	Arg	Pro	Pro	Asp	Glu	Pro
				325					330					335	
Ala	Val	Leu	Gly	Val	Ala	Leu	Asn	Glu	Val	Phe	Val	Pro	Ile	Leu	Gln
			340					345					350		
Lys	Gln	Phe	Pro	Glu	Ile	Val	Asp	Phe	Tyr	Leu	Pro	Pro	Glu	Gly	Cys
		355					360					365			
Ser	Tyr	Arg	Leu	Ala	Val	Val	Thr	Met	Lys	Lys	Gln	Tyr	Ala	Gly	His
	370					375					380				
Ala	Lys	Arg	Val	Met	Met	Gly	Val	Trp	Ser	Phe	Leu	Arg	Gln	Phe	Met
385				390						395					400
Tyr	Thr	Lys	Phe	Val	Ile	Val	Cys	Asp	Asp	Asp	Val	Asn	Ala	Arg	Asp
			405					410						415	
Trp	Asn	Asp	Val	Ile	Trp	Ala	Ile	Thr	Thr	Arg	Met	Asp	Pro	Ala	Arg
			420					425					430		
Asp	Thr	Val	Leu	Val	Glu	Asn	Thr	Pro	Ile	Asp	Tyr	Leu	Asp	Phe	Ala
		435					440					445			
Ser	Pro	Val	Ser	Gly	Leu	Gly	Ser	Lys	Met	Gly	Leu	Asp	Ala	Thr	Asn
	450					455					460				
Lys	Trp	Pro	Gly	Glu	Thr	Asp	Arg	Glu	Trp	Gly	Arg	Pro	Ile	Glu	Lys
465					470					475					480
Asp	Pro	Ala	Val	Thr	Ala	Arg	Ile	Asp	Ala	Ile	Trp	Asp	Glu	Leu	Ala
			485					490						495	
Ile	Met	Asn	Asn	Gly	Lys	Ala	Glu								

500

505

<210> 7699
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 7699

Thr	Ser	Arg	Gln	Arg	Glu	Arg	Met	Thr	Thr	Leu	Ser	Cys	Lys	Val	Thr
1				5					10					15	
Ser	Val	Asp	Ala	Ile	Thr	Asp	Thr	Val	Tyr	Arg	Val	Arg	Leu	Val	Pro
			20					25					30		
Glu	Ala	Ala	Phe	Ser	Phe	Arg	Ala	Gly	Gln	Tyr	Leu	Met	Val	Val	Met
			35				40					45			
Asp	Glu	Arg	Asp	Lys	Arg	Pro	Phe	Ser	Met	Ala	Ser	Thr	Pro	Ala	Glu
	50					55					60				
Lys	Glu	Phe	Ile	Glu	Leu	His	Ile	Gly	Ala	Ser	Glu	Leu	Asn	Leu	Tyr
65				70						75				80	
Ala	Met	Ala	Val	Met	Asp	Arg	Ile	Leu	Lys	Glu	Arg	Glu	Ile	Val	Val
				85					90					95	
Asp	Ile	Pro	His	Gly	Glu	Ala	Trp	Leu	Arg	Glu	Asp	Glu	Asp	Arg	Pro
			100					105					110		
Leu	Ile	Leu	Ile	Ala	Gly	Gly	Thr	Gly	Phe	Ser	Tyr	Val	Arg	Ser	Ile
		115					120					125			
Leu	Leu	Thr	Ala	Leu	Ala	Arg	Asn	Pro	Asn	Arg	Asp	Ile	Thr	Ile	Tyr
	130					135					140				
Trp	Gly	Gly	Arg	Glu	Glu	Lys	His	Leu	Tyr	Asp	Leu	Ser	Glu	Leu	Glu
145				150						155					160
Ala	Leu	Ser	Val	Asn	His	Pro	Asn	Leu	Arg	Ile	Glu	Pro	Val	Val	Glu
				165					170					175	
Gln	Pro	Glu	Glu	Gly	Trp	Arg	Gly	Arg	Ser	Gly	Thr	Val	Leu	Thr	Ala
			180				185						190		
Val	Leu	Gln	Asp	His	Gly	Thr	Leu	Ala	Gly	His	Asp	Ile	Tyr	Ile	Ala
		195					200					205			
Gly	Arg	Phe	Glu	Met	Ala	Lys	Ile	Ala	Arg	Asp	Leu	Phe	Cys	Asn	Glu
	210					215					220				
Arg	Asp	Ala	Arg	Glu	Asp	Arg	Leu	Phe	Gly	Asp	Ala	Phe	Ala	Phe	Ile
225					230					235					240

<210> 7700
 <211> 546
 <212> PRT
 <213> Enterobacter cloacae

<400> 7700

Phe	His	Ser	Gly	Val	Leu	Met	Ala	His	Phe	Ala	Gln	Ser	Pro	Ser	Phe
1				5					10					15	
Ile	Leu	His	Gln	Val	Thr	Cys	Gln	Phe	Ala	Thr	Gly	Asp	Ile	Leu	Phe
			20					25					30		
Gly	Pro	Leu	Asn	Leu	Ser	Leu	Asp	Ala	Ser	Val	Cys	Ala	Leu	Val	Gly
		35					40					45			
Arg	Asn	Gly	Ser	Gly	Lys	Thr	Arg	Leu	Leu	Arg	Leu	Leu	Ala	Gly	Val
	50					55					60				
Asp	Glu	Pro	Ala	Ser	Gly	His	Ile	Glu	Arg	Phe	Gly	Thr	His	Val	Tyr
65					70					75				80	
Val	Ala	Gln	Gln	Gln	Asp	Ile	Ser	Ala	Asp	Thr	Thr	Leu	Ala	Glu	Leu
				85					90					95	
Leu	Gly	Tyr	Asp	Ala	Ile	Phe	Ala	Ala	Arg	Thr	Arg	Ile	Asp	Ser	Gly
			100					105					110		

His Tyr Glu Pro Asp Asp Leu Asp Thr Leu Asp Gly Tyr Trp Asp Leu
 115 120 125
 Ala Glu Arg Leu Ser Gln Ala Phe Ile Ala Ala Lys Leu Pro Pro Phe
 130 135 140
 Asp Pro Ser Lys Arg Ala Ala Glu Leu Ser Gly Gly Glu Arg Ile Arg
 145 150 155 160
 Ala Leu Leu Cys Ser Ala Phe Thr Ala Asp Ala Asp Tyr Leu Leu Leu
 165 170 175
 Asp Glu Pro Thr Asn His Leu Asp Arg Gln Gly Arg Lys Trp Phe Tyr
 180 185 190
 Glu Gln Leu Ser Arg Tyr Gln Gly Gly Val Leu Val Ala Ser His Asp
 195 200 205
 Arg Glu Leu Leu Ala Gln Val Pro Arg Ile Leu Glu Leu Ser Ala Leu
 210 215 220
 Gly Leu Arg Ser Tyr Gly Gly Asn Tyr Ala Asp Tyr Arg Thr Gln Arg
 225 230 235 240
 Asp Ala Glu Gln Leu Ala Ala Arg Ala Ala Leu Glu His Ala Ala Thr
 245 250 255
 Glu Arg Lys Arg Thr Arg Ala Arg Met His Lys Glu His Asp Asp Ser
 260 265 270
 Leu Arg Arg Ser Ala Lys Thr Leu Arg Thr Val Asp Ser Leu Asn Ile
 275 280 285
 Ala Ser Phe Glu Arg Val Lys Tyr Lys Gly Ala Ala Lys Glu Arg Ile
 290 295 300
 Gly Ser Trp Lys Lys Gln His Ser Val Gln Asn His Ala Leu Asn Ala
 305 310 315 320
 Ala Val Asn Gln Ala Arg Glu Arg Val Glu Glu Asp Asn Ala Val Met
 325 330 335
 Phe Thr Leu Pro Gly Ser Glu Ile Pro Glu Gly Lys Gln Val Leu Val
 340 345 350
 Leu Glu Glu Leu Val Leu Pro His Val Pro Val Pro Pro Ile Asn Trp
 355 360 365
 Arg Met Asp Gly Pro Met Arg Val Ala Leu Arg Gly Pro Asn Gly Cys
 370 375 380
 Gly Lys Ser Thr Leu Leu Lys Val Met Leu Gly Glu Thr Ala Pro Val
 385 390 395 400
 Thr Gly Thr Cys Lys Val Ser Val Arg Cys Ala Tyr Leu Asp Gln His
 405 410 415
 Leu Ser Arg Leu Asp Leu Ser Gln Ser Val Met Thr His Leu Ser Leu
 420 425 430
 Gly Asn Thr Pro Leu Glu Glu Gly Ala Leu Arg Thr Arg Leu Ala Gln
 435 440 445
 Leu Gln Leu Gly Ala Glu Lys Val Thr Leu Pro Leu Ala Glu Leu Ser
 450 455 460
 Gly Gly Glu Arg Leu Lys Ala Ala Leu Ala Cys Val Leu Trp Arg Glu
 465 470 475 480
 Ala Ala Thr Gln Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp
 485 490 495
 Leu Ala Ser Val Gln Ala Ile Glu Ala Ala Leu Ala Asp Tyr Pro Gly
 500 505 510
 Ala Leu Leu Val Val Ser His Asp Glu Ala Phe Leu Ala Gly Leu Lys
 515 520 525
 Leu Thr His Glu Leu Val Trp Glu Glu Thr Gly Trp Arg Cys Glu Ser
 530 535 540
 Leu
 545

<210> 7701

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7701

Ala	Asp	Asp	Asp	Thr	Arg	Thr	Leu	Leu	Ile	Gln	Ala	Glu	Glu	Glu	Arg
1				5					10					15	
Val	Val	Asp	Asn	Arg	Met	His	Asp	Arg	Tyr	Cys	Glu	Leu	Arg	Ala	Ala
			20					25					30		
Ala	Gly	His	Pro	Cys	Glu	Gly	Gly	Lys	Pro	Leu	Val	Ile	Asn	Gly	Ala
		35					40					45			
Tyr	His	Glu	Ile	Leu	Phe	Glu	Lys	Asp	Ala	Met	Arg	Ser	Val	Ala	Leu
	50					55					60				
Asn	Ala	Ile	Val	Glu	Phe	Phe	Asn	Arg	His	Asn					
65					70					75					

<210> 7702

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 7702

Ser	Asn	Ser	Leu	Phe	Ser	Ala	Lys	Arg	Pro	Thr	Cys	Ser	Ala	Phe	Ser
1				5					10					15	
Phe	Cys	Val	Thr	Pro	Arg	Arg	Lys	Thr	Leu	Ser	Asn	Trp	Thr	Phe	Ile
			20					25					30		
Gln	His	Asn	Ser	Ile	Leu	Cys	Gly	Leu	Asp	Val	Asp	Ala	Gly	Gly	Ile
		35					40					45			
Val	Asp	Ile	Ser	Ile	Leu	Val	Tyr	Ala	Val	Val	Ala	Leu	Val	Ser	Val
	50					55					60				
Gly	Ile	Gly	Trp	Leu	Ile	Cys	Gly	Tyr	Gln	His	Ala	Gln	Gln	Lys	Ala
65				70					75					80	
Asp	Gln	Leu	Ala	Glu	Arg	Glu	Glu	Ile	Val	Ala	Glu	Leu	Ser	Ala	Thr
				85					90					95	
Lys	Gln	Gln	Leu	Ala	Leu	Ser	Asp	His	Trp	Arg	Asp	Glu	Cys	Glu	Leu
			100					105					110		
Leu	Asn	Asn	Glu	Leu	Arg	Asn	Leu	Arg	Asp	Ile	Asn	Thr	Ser	Leu	Glu
		115					120					125			
Ala	Asp	Leu	Arg	Glu	Val	Thr	Thr	Arg	Leu	Glu	Ser	Thr	Gln	Leu	His
	130					135					140				
Ala	Glu	Asp	Lys	Ile	Arg	Gln	Met	Ile	Asn	Ser	Glu	Gln	Arg	Leu	Ser
145				150					155					160	
Glu	Gln	Phe	Glu	Asn	Leu	Ala	Asn	Arg	Ile	Phe	Glu	His	Ser	Asn	Arg
				165					170					175	
Arg	Val	Asp	Glu	Gln	Asn	Arg	Gln	Ser	Leu	Asn	Ser	Leu	Leu	Thr	Pro
			180					185					190		
Leu	Arg	Glu	Gln	Leu	Asp	Gly	Phe	Arg	Arg	Gln	Val	Gln	Asp	Ser	Phe
	195					200						205			
Gly	Gln	Glu	Ala	Arg	Glu	Arg	His	Thr	Leu	Ala	His	Glu	Ile	Arg	Asn
	210					215					220				
Leu	Gln	Gln	Leu	Asn	Ala	Gln	Met	Ala	Gln	Glu	Ala	Val	Asn	Leu	Thr
225				230					235					240	
Arg	Ala	Leu	Lys	Gly	Asp	Asn	Lys	Ala	Gln	Gly	Asn	Trp	Gly	Glu	Val
			245					250						255	
Val	Met	Thr	Arg	Val	Leu	Glu	Ala	Ser	Gly	Leu	Arg	Glu	Gly	Tyr	Glu
			260					265					270		
Tyr	Glu	Thr	Gln	Val	Ser	Ile	Glu	Asn	Asp	Ala	Arg	Ser	Arg	Met	Gln
	275						280					285			
Pro	Asp	Val	Ile	Val	Arg	Leu	Pro	Gln	Gly	Lys	Asp	Val	Val	Ile	Asp
	290					295					300				
Ala	Lys	Met	Thr	Leu	Val	Ala	Tyr	Glu	Arg	Tyr	Phe	Asn	Ala	Glu	Asp
305				310						315				320	
Asp	Tyr	Thr	Arg	Glu	Thr	Ala	Leu	Gln	Glu	His	Ile	Ala	Ser	Val	Arg
				325					330					335	

Asn His Ile Arg Leu Leu Gly Arg Lys Asp Tyr Gln Gln Leu Pro Gly
 340 345 350
 Leu Arg Ser Leu Asp Tyr Val Leu Met Phe Ile Pro Val Glu Pro Ala
 355 360 365
 Phe Leu Leu Ala Leu Asp Arg Gln Pro Glu Leu Ile Thr Glu Ala Leu
 370 375 380
 Lys Asn Asn Ile Met Leu Val Ser Pro Thr Thr Leu Leu Val Ala Leu
 385 390 395 400
 Arg Thr Ile Ala Asn Leu Trp Arg Tyr Glu His Gln Ser Arg Asn Ala
 405 410 415
 Gln Gln Ile Ala Asp Arg Ala Ser Lys Leu Tyr Asp Lys Met Arg Leu
 420 425 430
 Phe Val Asp Asp Met Ser Ser Val Gly Gln Ser Leu Asp Arg Ala Gln
 435 440 445
 Asp Asn Tyr Arg Gln Ala Met Lys Lys Leu Ser Ser Gly Arg Gly Asn
 450 455 460
 Leu Leu Ala Gln Ala Glu Ala Phe Arg Ser Leu Gly Val Glu Val Lys
 465 470 475 480
 Arg Glu Ile Asn Pro Glu Leu Val Glu Gln Ala Thr Ala Gln Asp Glu
 485 490 495
 Glu Phe Arg Leu Arg Glu Gly Asp Gly Glu Gln Asn Ser Arg Asn Glu
 500 505 510
 Asp Asn Gly Leu Ala Ala Ser Leu Ser Pro Glu Ala Gln Pro Ala Arg
 515 520 525
 Phe Phe His Gly Gly
 530

<210> 7703

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7703

Leu Ala Gly Ser Glu Met Val Asp Asp Ser Gln Asp Thr Thr His Phe
 1 5 10 15
 Gly Phe Gln Thr Val Ala Lys Ala Gln Lys Ala Asp Met Val Ala His
 20 25 30
 Val Phe His Ser Val Ala Ala Lys Tyr Asp Val Met Asn Asp Leu Met
 35 40 45
 Ser Phe Gly Ile His Arg Leu Trp Lys Arg Phe Thr Ile Asp Cys Ser
 50 55 60
 Gly Val Arg Arg Gly Gln Thr Val Leu Asp Leu Ala Gly Gly Thr Gly
 65 70 75 80
 Asp Leu Thr Ala Lys Phe Ser Arg Leu Val Gly Glu Thr Gly Arg Val
 85 90 95
 Val Leu Ala Asp Ile Asn Asp Ser Met Leu Lys Met Gly Arg Glu Lys
 100 105 110
 Leu Arg Asn Ile Gly Val Val Gly Asn Val Glu Tyr Val Gln Ala Asn
 115 120 125
 Ala Glu Ala Leu Pro Phe Pro Asp Asn Thr Phe Asp Cys Ile Thr Ile
 130 135 140
 Ser Phe Gly Leu Arg Asn Val Thr Asp Lys Asp Lys Ala Leu Arg Ser
 145 150 155 160
 Met Tyr Arg Val Leu Lys Pro Gly Gly Arg Leu Leu Val Leu Glu Phe
 165 170 175
 Ser Lys Pro Ile Ile Asp Pro Leu Ser Lys Ala Tyr Asp Ala Tyr Ser
 180 185 190
 Phe His Val Leu Pro Arg Ile Gly Glu Leu Val Ala Asn Asp Ala Glu
 195 200 205
 Ser Tyr Arg Tyr Leu Ala Glu Ser Ile Arg Met His Pro Asp Gln Asp
 210 215 220

Thr	Leu	Lys	Ala	Met	Met	Gln	Asp	Ala	Glu	Phe	Glu	Asn	Val	Glu	Tyr
225					230					235					240
Phe	Asn	Met	Thr	Ala	Gly	Val	Val	Ala	Leu	His	Arg	Gly	Tyr	Lys	Phe
				245					250					255	

<210> 7704

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 7704

Cys	Val	Asn	Gln	Thr	Ala	Gly	Lys	Thr	Gly	Gly	Gln	Met	Thr	Pro	Gly
1				5					10					15	
Glu	Ile	Arg	Arg	Leu	Tyr	Phe	Ile	Val	Arg	Thr	Phe	Leu	Ser	Tyr	Gly
			20					25					30		
Leu	Asp	Glu	Leu	Ile	Pro	Arg	Met	Arg	Ile	Thr	Leu	Pro	Leu	Arg	Leu
			35				40					45			
Trp	Arg	Arg	Thr	Leu	Phe	Trp	Met	Pro	Asn	Arg	His	Lys	Asp	Gln	Glu
	50					55					60				
Leu	Gly	Ala	Arg	Leu	Arg	Leu	Ala	Leu	Gln	Glu	Leu	Gly	Pro	Val	Trp
65				70					75						80
Ile	Lys	Phe	Gly	Gln	Met	Leu	Ser	Thr	Arg	Arg	Asp	Leu	Phe	Pro	Pro
				85					90					95	
Gln	Ile	Ala	Asp	Gln	Leu	Ala	Leu	Leu	Gln	Asp	Arg	Val	Ala	Pro	Phe
			100					105					110		
Asp	Gly	Glu	Arg	Ala	Lys	Lys	Gln	Ile	Glu	Glu	Ala	Met	Gly	Asn	Ile
	115						120					125			
Pro	Ile	Glu	Thr	Trp	Phe	Asp	Asp	Phe	Asp	Ile	Gln	Pro	Leu	Ala	Ser
	130					135					140				
Ala	Ser	Ile	Ala	Gln	Val	His	Thr	Ala	Arg	Leu	Lys	Glu	Asn	Gly	Lys
145					150					155					160
Glu	Val	Val	Ile	Lys	Val	Ile	Arg	Pro	Asp	Ile	Leu	Pro	Val	Ile	Lys
				165					170					175	
Ala	Asp	Met	Lys	Leu	Ile	Tyr	Arg	Leu	Ala	Arg	Trp	Val	Pro	Arg	Leu
			180					185					190		
Leu	Pro	Asp	Gly	Arg	Arg	Leu	Arg	Pro	Leu	Glu	Val	Val	Arg	Glu	Tyr
		195					200					205			
Glu	Lys	Thr	Leu	Ile	Asp	Glu	Leu	Asn	Leu	Leu	Arg	Glu	Ser	Ala	Asn
	210					215					220				
Ala	Ile	Gln	Leu	Arg	Arg	Asn	Phe	Glu	Asp	Ser	Pro	Met	Leu	Tyr	Val
225					230					235					240
Pro	Glu	Val	Tyr	Ser	Asp	Tyr	Cys	Ser	Gln	Asn	Met	Met	Val	Met	Glu
				245					250					255	
Arg	Ile	Tyr	Gly	Ile	Pro	Val	Ser	Asp	Val	Thr	Ala	Leu	Glu	Lys	Gln
			260					265					270		
Gly	Thr	Asn	Met	Lys	Leu	Leu	Ala	Glu	Arg	Gly	Val	Gln	Val	Phe	Phe
		275					280					285			
Thr	Gln	Val	Phe	Arg	Asp	Ser	Phe	Phe	His	Ala	Asp	Met	His	Pro	Gly
	290					295					300				
Asn	Ile	Phe	Val	Ser	Tyr	Glu	His	Pro	Glu	Asp	Pro	Lys	Tyr	Ile	Gly
305					310					315					320
Ile	Asp	Cys	Gly	Ile	Val	Gly	Ser	Leu	Asn	Lys	Glu	Asp	Lys	Arg	Tyr
				325					330					335	
Leu	Ala	Glu	Asn	Phe	Ile	Ala	Phe	Phe	Asn	Arg	Asp	Tyr	Arg	Lys	Val
			340					345					350		
Ala	Glu	Leu	His	Val	Asp	Ser	Gly	Trp	Val	Pro	Pro	Asp	Thr	Asn	Val
	355						360					365			
Glu	Glu	Phe	Glu	Phe	Ala	Ile	Arg	Thr	Val	Cys	Glu	Pro	Ile	Phe	Glu
	370					375					380				

Lys Pro Leu Ser Glu Ile Ser Phe Gly His Val Leu Leu Asn Leu Phe
 385 390 395 400
 Asn Thr Ala Arg Arg Phe Asn Met Glu Val Gln Pro Gln Leu Val Leu
 405 410 415
 Leu Gln Lys Thr Leu Leu Tyr Val Glu Gly Val Gly Arg Gln Leu Tyr
 420 425 430
 Pro Gln Leu Asp Leu Trp Lys Thr Ala Lys Pro Phe Leu Glu Ser Trp
 435 440 445
 Ile Lys Asp Gln Val Gly Ile Pro Ala Leu Val Arg Ser Leu Lys Glu
 450 455 460
 Lys Gly Pro Phe Trp Ile Glu Lys Met Pro Glu Ile Pro Glu Leu Val
 465 470 475 480
 Tyr Asp Ser Leu Arg Gln Ser Lys Asn Leu Gln His Ser Met Asp Lys
 485 490 495
 Ile Ala His Glu Leu Gln Ser Ser Arg Val Arg Gln Gly Gln Ser Arg
 500 505 510
 Tyr Leu Phe Gly Ile Gly Ala Thr Leu Leu Ile Ser Gly Thr Leu Leu
 515 520 525
 Leu Ile Asn Arg Pro Asp Trp Glu Met Met Pro Ala Trp Ile Met Ala
 530 535 540
 Ala Gly Val Val Val Trp Leu Ala Gly Trp Arg Lys Thr Arg
 545 550 555

<210> 7705

<211> 260

<212> PRT

<213> Enterobacter cloacae

<400> 7705

Ser Val Asn Met Ala Val Asp Asp Thr Gln Pro Leu Ile Ala His Leu
 1 5 10 15
 Ile Glu Leu Arg Lys Arg Leu Leu Asn Cys Ile Ile Ala Val Phe Leu
 20 25 30
 Ile Phe Leu Cys Leu Val Tyr Phe Ala Asn Asp Ile Tyr Gln Val Val
 35 40 45
 Ser Ala Pro Leu Ile Lys Gln Met Pro Leu Gly Ala Thr Met Ile Ala
 50 55 60
 Thr Asp Val Ala Ser Pro Phe Phe Thr Pro Ile Lys Leu Thr Phe Trp
 65 70 75 80
 Val Ser Leu Ile Ala Ser Ala Pro Val Ile Leu Tyr Gln Val Trp Ala
 85 90 95
 Phe Val Ala Pro Ala Leu Tyr Arg His Glu Arg Lys Leu Val Ile Pro
 100 105 110
 Leu Leu Val Ser Ser Ser Leu Leu Phe Tyr Ile Gly Met Ala Phe Ala
 115 120 125
 Tyr Phe Val Val Phe Pro Leu Ala Phe Gly Phe Leu Thr His Thr Ala
 130 135 140
 Pro Glu Gly Val Gln Val Ser Thr Asp Ile Ala Ser Tyr Leu Ser Phe
 145 150 155 160
 Val Met Ala Leu Phe Met Ala Phe Gly Val Ala Phe Glu Val Pro Val
 165 170 175
 Ala Ile Val Leu Leu Cys Trp Val Gly Val Thr Thr Pro Asp Asp Leu
 180 185 190
 Arg Lys Lys Arg Pro Tyr Ile Leu Val Gly Ala Phe Val Val Gly Met
 195 200 205
 Leu Leu Thr Pro Pro Asp Val Phe Ser Gln Thr Leu Leu Ala Ile Pro
 210 215 220
 Met Tyr Cys Leu Phe Glu Val Gly Val Phe Phe Ala Arg Phe Tyr Val
 225 230 235 240
 Gly Lys Gly Arg Thr Arg Asp Glu Glu Asp Glu Pro Ser Glu Glu Thr
 245 250 255

Thr Lys Glu

260

<210> 7706

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7706

Ser	Arg	Cys	Val	Ile	Tyr	Glu	Glu	Phe	Ser	Met	Glu	Leu	Lys	Asp	Pro
1				5					10					15	
Glu	Phe	Glu	Leu	Leu	Ser	Ser	Leu	Glu	Gln	Ile	Ile	Phe	Lys	Asp	Val
			20					25					30		
Pro	Pro	Thr	Val	Thr	Leu	Asn	Gln	Lys	Ser	Asn	Pro	Phe	Ser	Glu	Phe
			35				40					45			
Glu	Arg	Leu	Arg	Lys	Gly	Ser	Gly	Leu	Lys	Thr	Asp	Glu	Phe	Ala	Arg
	50					55					60				
Ala	Met	Gly	Val	Ser	Val	Ala	Met	Val	Leu	Glu	Trp	Glu	Ser	Lys	Arg
65					70					75					80
Glu	Lys	Pro	Thr	Pro	Ala	Glu	Leu	Lys	Leu	Met	Arg	Leu	Ile	Gln	Ala
				85					90					95	
Asn	Pro	Asp	Leu	Arg	Lys	Gln	Leu	Ala							
			100					105							

<210> 7707

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7707

Arg	Ser	Arg	Gln	Gly	Phe	Gly	Met	Leu	Ala	Pro	Arg	Thr	Met	Gly	Arg
1				5					10					15	
Val	Ile	Met	Gln	Ala	Trp	Tyr	Leu	Leu	Tyr	Cys	Lys	Arg	Gly	Gln	Leu
			20					25					30		
Gln	Arg	Ala	Gln	Glu	His	Leu	Glu	Arg	Gln	Ser	Val	Asn	Cys	Leu	Thr
		35					40					45			
Pro	Val	Ile	Thr	Leu	Glu	Lys	Met	Gln	Arg	Gly	Arg	Arg	Thr	Thr	Val
	50					55					60				
Ser	Glu	Pro	Leu	Phe	Pro	Asn	Tyr	Leu	Phe	Val	Glu	Phe	Asp	Pro	Glu
65					70				75						80
Val	Ile	His	Thr	Thr	Thr	Ile	Ser	Ala	Thr	Arg	Gly	Val	Ser	His	Phe
			85					90						95	
Val	Arg	Phe	Gly	Ala	His	Pro	Ala	Arg	Val	Pro	Ser	Ser	Val	Ile	His
			100				105						110		
Gln	Leu	Ser	Val	Tyr	Gln	Gln	Pro	Glu	Asp	Ile	Thr	Asp	Pro	Glu	Thr
		115					120					125			
Pro	Tyr	Ala	Gly	Asp	Ser	Val	Val	Ile	Thr	Glu	Gly	Ala	Phe	Glu	Gly
	130					135					140				
Leu	Gln	Ala	Ile	Phe	Ala	Glu	Pro	Asp	Gly	Glu	Ala	Arg	Ser	Met	Leu
145					150					155					160
Leu	Leu	Asn	Leu	Leu	Asn	Lys	Glu	Val	Leu	Gln	Ser	Val	Lys	Asn	Thr
			165						170					175	
Asp	Phe	Arg	Lys	Val											
			180												

<210> 7708

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 7708

Pro Gly Val Tyr Ile Tyr Leu Cys Ala Asn Pro Phe Ile Gly Thr Glu
 1 5 10 15
 Asn Ala Met Thr Glu Lys Thr Gly Phe Ala Pro Ala Ala Pro His
 20 25 30
 Ala Ser Thr Ile Val Ser Thr Pro Glu Glu Ala Ile Thr Ala Gly Glu
 35 40 45
 Thr Ser Ile Pro Ser Gln Gly Glu Asn Met Pro Ala Tyr His Ala Arg
 50 55 60
 Pro Lys Ser Ala Asp Gly Pro Leu Pro Ile Val Ile Val Val Gln Glu
 65 70 75 80
 Ile Phe Gly Val His Glu His Ile Arg Asp Leu Cys Arg Arg Leu Ala
 85 90 95
 Leu Glu Gly Tyr Leu Ala Val Ala Pro Glu Leu Tyr Phe Arg Gln Gly
 100 105 110
 Asp Pro Asn Asp Tyr Ser Asp Ile Pro Thr Leu Phe Ser Asn Leu Val
 115 120 125
 Ser Lys Val Pro Asp Ala Gln Val Leu Ala Asp Leu Asp His Val Ala
 130 135 140
 Ser Trp Ala Ala Arg Asn Gly Gly Asp Pro His Arg Leu Met Val Thr
 145 150 155 160
 Gly Phe Cys Trp Gly Arg Ile Ser Trp Leu Tyr Ala Ala His Asn
 165 170 175
 Pro Gln Leu Lys Ala Ala Val Ala Trp Tyr Gly Lys Leu Val Gly Glu
 180 185 190
 Lys Thr Leu Asn Ser Pro Lys His Pro Val Asp Ile Ala Thr Asp Leu
 195 200 205
 Asn Ala Pro Val Leu Gly Leu Tyr Gly Gly Gln Asp Thr Gly Ile Pro
 210 215 220
 Leu Asp Thr Val Glu Thr Met Arg His Ala Leu Arg Ala Ala Asn Ala
 225 230 235 240
 Lys Ala Glu Ile Val Val Tyr Pro Asp Ala Gly His Ala Phe Asn Ala
 245 250 255
 Asp Tyr Arg Pro Ser Tyr His Ala Glu Ser Ala Lys Asp Gly Trp Gln
 260 265 270
 Arg Met Leu Ala Trp Phe Ser Gln Tyr Gly Gly Lys Lys Ala
 275 280 285

<210> 7709

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 7709

Gly Cys Met Ala Val Arg Ile Pro Ala Phe Arg Leu Ile Pro Ser Arg
 1 5 10 15
 Pro Cys Ala Thr Arg Cys Gly Arg Gln Thr Arg Arg Pro Lys Ser Trp
 20 25 30
 Cys Thr Arg Met Arg Asp Thr Arg Leu Met Pro Ile Ile Val Arg Ala
 35 40 45
 Ile Thr Arg Asn Pro Arg Lys Met Ala Gly Arg Glu Cys Trp Arg Gly
 50 55 60
 Ser Ala Ser Thr Ala Gly Arg Lys Arg Asn Thr Lys Ser Pro Val Ala
 65 70 75 80
 Ala Thr Pro Thr Gly Gln Ser Ser Pro Thr Thr Pro Asp Ala Asn Ser
 85 90 95
 Ala Pro Pro Ala Pro Cys Ser Pro Ala Pro Arg Gly Phe Gln Ala Ser
 100 105 110
 Arg Glu Phe Ser Gly Arg Ser Pro Gly Leu Pro Thr Asp Val Pro Pro
 115 120 125
 Gly Cys Ala Gly Pro Leu Phe Ala Ala Ala Ile Gln Ser Thr Pro Arg
 130 135 140

Leu Ala Arg
145

<210> 7710
<211> 321
<212> PRT
<213> Enterobacter cloacae

<400> 7710
Arg Thr Phe Met Ile Glu Ile Lys His Leu Lys Thr Leu Gln Ala Leu
1 5 10 15
Arg Asn Cys Gly Ser Leu Ala Ala Ala Thr Leu His Gln Thr
20 25 30
Gln Ser Ala Leu Ser His Gln Phe Ser Asp Leu Glu Gln Arg Leu Gly
35 40 45
Phe Arg Leu Phe Val Arg Lys Ser Gln Pro Leu Arg Phe Thr Pro Gln
50 55 60
Gly Glu Ile Leu Leu Gln Leu Ala Asn Gln Val Leu Pro Gln Ile Ala
65 70 75 80
Ser Ala Leu Gln Ser Cys Asn Glu Pro Gln Gln Thr Thr Leu Arg Ile
85 90 95
Ala Ile Glu Cys His Ser Cys Ile Gln Trp Leu Thr Pro Ala Leu Glu
100 105 110
Asn Phe Arg Gln Lys Trp Pro Gln Val Glu Met Asp Phe Lys Ser Gly
115 120 125
Val Thr Phe Asp Pro Gln Pro Ser Leu Gln Gln Gly Glu Leu Asp Leu
130 135 140
Val Met Thr Ser Asp Ile Leu Pro Arg Ser Gly Leu His Tyr Ser Pro
145 150 155 160
Met Phe Asp Phe Glu Val Arg Leu Val Leu Ala Pro Asp His Pro Leu
165 170 175
Ala Ala Lys Thr Arg Ile Thr Pro Glu Asp Leu Ala Thr Glu Thr Leu
180 185 190
Leu Ile Tyr Pro Val Gln Arg Ser Arg Leu Asp Ile Trp Arg His Phe
195 200 205
Leu Gln Pro Ala Gly Ile Ser Pro Gln Leu Lys Ser Val Asp Asn Thr
210 215 220
Leu Leu Leu Ile Gln Met Val Ala Ala Arg Met Gly Ile Ala Ala Leu
225 230 235 240
Pro His Trp Val Val Glu Thr Val Glu Arg Gln Gly Leu Val Val Thr
245 250 255
Lys Thr Leu Gly Glu Gly Leu Trp Ser Arg Leu Tyr Ala Ala Val Arg
260 265 270
Asp Gly Glu Gln Arg Gln Pro Ile Thr Glu Ala Phe Ile Arg Ser Ala
275 280 285
Arg Asn His Ala Cys Asp His Leu Pro Phe Val Arg Ser Ala Glu Arg
290 295 300
Pro Ser Gly Asp Val Pro Thr Ala Lys Pro Gly Ser Pro Phe Pro Gln
305 310 315 320

<210> 7711
<211> 502
<212> PRT
<213> Enterobacter cloacae

<400> 7711
Lys Glu Pro Pro Gly Tyr Val Phe Leu Val Pro Arg Gly Gly Met Met
1 5 10 15
Asn Ile Pro Gly Asp Glu Leu Tyr Thr Leu Leu His Ala Ala Leu Lys

<210> 7712
 <211> 222
 <212> PRT
 <213> Enterobacter cloacae

<400> 7712

```

Ile His Gln Arg Met Ala Arg Lys Thr Lys Gln Gln Ala Leu Glu Thr
1      5      10      15
Arg Gln His Ile Leu Asp Val Ala Met Arg Leu Phe Ser Gln Gln Gly
      20      25      30
Val Ser Ala Thr Ser Leu Ala Gln Ile Ala Gln Ala Gly Val Thr
      35      40      45
Arg Gly Ala Ile Tyr Trp His Phe Lys Asp Lys Ser Asp Leu Phe Gly
      50      55      60
Glu Ile Trp Glu Leu Ser Glu Ser Ser Ile Ser Asp Leu Glu Ser Glu
65      70      75      80
Tyr Arg Ala Lys Phe Pro His Asp Pro Leu Ser Val Leu Arg Glu Ile
      85      90      95
Leu Val Tyr Ile Leu Glu Ala Thr Val Val Glu Glu Arg Arg Arg Leu
      100     105     110
Met Met Glu Ile Ile Phe His Lys Cys Glu Phe Val Gly Glu Met Ala
      115     120     125
Val Val Gln Gln Ala Gln Arg Asp Leu Cys Leu Glu Ser Tyr Asp Arg
      130     135     140
Ile Glu Gln Val Leu Thr Glu Cys Met Gln Ala Lys Met Leu Pro Ala
145     150     155     160
Thr Leu Leu Thr Arg Arg Ala Ala Ile Leu Met Arg Ser Tyr Ile Ser
      165     170     175
Gly Leu Met Glu Asn Trp Leu Phe Ala Pro Glu Ser Phe Asp Leu Arg
      180     185     190
Ser Glu Ala Arg Ser Tyr Val Asp Ile Phe Leu Glu Met Cys Gln Leu
      195     200     205
Cys Pro Thr Leu Gln Ser Lys His His Pro Arg Ser Thr
      210     215     220

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<210> 7713
 <211> 206
 <212> PRT
 <213> Enterobacter cloacae

<400> 7713

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Thr Thr Val Thr Leu Thr Asp Ser Ser Arg Ala Val Ser Asn Thr Val
1      5      10      15
Ser Phe Arg His Lys Pro Met Thr Ala Thr Ala Gln Gln Leu Glu Tyr
      20      25      30
Leu Lys Asn Ser Ile Lys Ser Ile Gln Asp Tyr Pro Lys Pro Gly Ile
      35      40      45
Leu Phe Arg Asp Val Thr Ser Leu Leu Glu Asp Pro Lys Ala Tyr Ala
      50      55      60
Leu Ser Ile Glu Leu Leu Val Glu Arg Tyr Lys Asn Ala Gly Ile Thr
65      70      75      80
Lys Val Val Gly Thr Glu Ala Arg Gly Phe Leu Phe Gly Ala Pro Val
      85      90      95
Ala Leu Ala Met Gly Val Gly Phe Val Pro Val Arg Lys Pro Arg Lys
      100     105     110
Leu Pro Arg Glu Thr Ile Ala Glu Ser Tyr Glu Leu Glu Tyr Gly Thr
      115     120     125
Asp Gln Leu Glu Ile His Val Asp Ala Ile Lys Pro Gly Asp Lys Val
      130     135     140
Leu Val Val Asp Asp Leu Leu Ala Thr Gly Gly Thr Ile Glu Ala Thr

```

145					150				155				160
Val	Lys	Leu	Ile	Arg	Arg	Leu	Gly	Gly	Glu	Val	Thr	Asp	Ala
				165					170				175
Ile	Ile	Asn	Leu	Phe	Asp	Leu	Gly	Gly	Glu	Gln	Arg	Leu	Glu
			180					185					190
Gly	Ile	Thr	Ser	Tyr	Ser	Leu	Val	Pro	Phe	Pro	Gly	His	
	195						200					205	

<210> 7714

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7714

Arg	Glu	Arg	Arg	Glu	Lys	Pro	Met	Phe	Gly	Gly	Lys	Gly	Gly	Leu	Gly
1				5					10					15	
Gly	Leu	Met	Lys	Gln	Ala	Gln	Gln	Met	Gln	Glu	Lys	Met	Gln	Lys	Met
			20					25					30		
Gln	Glu	Glu	Ile	Ala	Gln	Leu	Glu	Val	Thr	Gly	Glu	Ser	Gly	Ala	Gly
		35					40					45			
Leu	Val	Lys	Val	Thr	Ile	Asn	Gly	Ala	His	Asn	Cys	Arg	Arg	Val	Glu
	50					55				60					
Ile	Asp	Pro	Ser	Leu	Leu	Glu	Asp	Asp	Lys	Glu	Met	Leu	Glu	Asp	Leu
65					70					75				80	
Val	Ala	Ala	Ala	Phe	Asn	Asp	Ala	Ala	Arg	Arg	Ile	Asp	Glu	Thr	Gln
				85					90					95	
Lys	Glu	Lys	Met	Ala	Ser	Val	Ser	Ser	Gly	Met	Gln	Leu	Pro	Pro	Gly
			100					105					110		
Phe	Lys	Met	Pro	Phe											
		115													

<210> 7715

<211> 658

<212> PRT

<213> Enterobacter cloacae

<400> 7715

His	Ser	Pro	Pro	Leu	Ile	His	Leu	Pro	Ala	Leu	Gln	Ser	Leu	Pro	Met
1				5					10					15	
Ser	Tyr	Gln	Val	Leu	Ala	Arg	Lys	Trp	Arg	Pro	Gln	Thr	Phe	Ala	Asp
			20					25					30		
Val	Val	Gly	Gln	Glu	His	Val	Leu	Thr	Ala	Leu	Ala	Asn	Gly	Leu	Ser
		35					40					45			
Leu	Gly	Arg	Ile	His	His	Ala	Tyr	Leu	Phe	Ser	Gly	Thr	Arg	Gly	Val
	50					55				60					
Gly	Lys	Thr	Ser	Ile	Ala	Arg	Leu	Leu	Ala	Lys	Gly	Leu	Asn	Cys	Glu
65					70					75				80	
Thr	Gly	Ile	Thr	Ala	Thr	Pro	Cys	Gly	Val	Cys	Asp	Asn	Cys	Arg	Glu
				85					90					95	
Ile	Glu	Gln	Gly	Arg	Phe	Val	Asp	Leu	Ile	Glu	Ile	Asp	Ala	Ala	Ser
			100					105					110		
Arg	Thr	Lys	Val	Glu	Asp	Thr	Arg	Asp	Leu	Leu	Asp	Asn	Val	Gln	Tyr
		115					120					125			
Ala	Pro	Ala	Arg	Gly	Arg	Phe	Lys	Val	Tyr	Leu	Ile	Asp	Glu	Val	His
	130					135					140				
Met	Leu	Ser	Arg	His	Ser	Phe	Asn	Ala	Leu	Leu	Lys	Thr	Leu	Glu	Glu
145					150					155				160	
Pro	Pro	Ala	His	Val	Lys	Phe	Leu	Leu	Ala	Thr	Thr	Asp	Pro	Gln	Lys
				165					170					175	
Leu	Pro	Val	Thr	Ile	Leu	Ser	Arg	Cys	Leu	Gln	Phe	His	Leu	Lys	Ala
			180					185					190		

Leu Asp Val Glu Gln Ile Arg Ala Gln Leu Glu His Ile Leu Asp Glu
 195 200 205
 Glu Asn Ile Val His Glu Pro Arg Ala Leu Gln Leu Leu Ala Arg Ala
 210 215 220
 Ala Asp Gly Ser Leu Arg Asp Ala Leu Ser Leu Thr Asp Gln Ala Ile
 225 230 235 240
 Ala Ser Gly Asp Gly Lys Leu Ser Thr Asp Ala Val Ser Thr Met Leu
 245 250 255
 Gly Thr Leu Asp Asp Asp Gln Ala Leu Ser Leu Ile Glu Ala Met Ile
 260 265 270
 Ala Ala Asn Gly Glu Arg Val Met Thr Leu Val Asn Asp Ala Ala Ala
 275 280 285
 Arg Gly Ile Glu Trp Glu Ala Leu Leu Val Glu Met Leu Ser Leu Leu
 290 295 300
 His Arg Val Ala Met Leu Gln Leu Ser Pro Ser Ala Ile Gly Ala Asp
 305 310 315 320
 Met Ala Thr Ile Glu Gln Arg Met Arg Glu Leu Ala Arg Thr Val Pro
 325 330 335
 Pro Ala Asp Val Gln Leu Tyr Tyr Gln Thr Leu Leu Ile Gly Arg Lys
 340 345 350
 Glu Leu Pro Phe Ala Pro Asp Arg Arg Met Gly Val Glu Met Thr Leu
 355 360 365
 Leu Arg Ala Leu Ala Phe His Pro Arg Lys Pro Leu Pro Glu Pro Glu
 370 375 380
 Thr Pro Arg Gln Ser Phe Ala Pro Val Ala Pro Thr Ala Val Met Ser
 385 390 395 400
 Pro Gln Gln Val Pro Pro Gln Pro Ala Ser Pro Pro Pro Gln Asn Val
 405 410 415
 Pro Leu Ser Asp Ala Thr Ser Ser Val Leu Ala Ala Arg Ser Gln Leu
 420 425 430
 Gln Arg Ala Gln Gly Ala Thr Lys Pro Lys Lys Ser Glu Pro Ala Ala
 435 440 445
 Pro Ala Arg Ala Arg Pro Val Asn Asn Ala Ala Leu Glu Arg Leu Ala
 450 455 460
 Ser Val Thr Glu Arg Val Gln Ser Arg Pro Ala Pro Ser Ala Leu Glu
 465 470 475 480
 Gln Lys Ala Pro Ala Lys Glu Glu Ala Tyr Arg Trp Lys Ala Thr Thr
 485 490 495
 Val Val Glu Thr Val Lys Glu Val Val Ala Thr Pro Lys Ala Leu Lys
 500 505 510
 Lys Ala Leu Glu His Glu Lys Thr Pro Glu Leu Ser Ala Lys Leu Ala
 515 520 525
 Glu Glu Ser Ile Glu Arg Asp Ala Trp Ala Ala Glu Val Ser Lys Leu
 530 535 540
 Gln Leu Pro Lys Leu Val Glu Gln Val Ala Leu Asn Ala Trp Lys Glu
 545 550 555 560
 Gln Asp Gly Asn Gln Val Arg Leu His Leu Arg Pro Gly Gln Arg His
 565 570 575
 Leu Asn Ser Pro Gly Ala Gln Lys Ala Leu Ala Glu Ala Leu Thr Ala
 580 585 590
 Leu Gln Gly Val Pro Val Glu Leu Thr Ile Ile Glu Asp Asp Asn Pro
 595 600 605
 Ala Val Lys Thr Pro Leu Glu Trp Arg Gln Ala Ile Tyr Glu Glu Lys
 610 615 620
 Leu Ala Gln Ala Arg Glu Ala Ile Ile Ala Asp Asn Asn Ile Gln Thr
 625 630 635 640
 Leu Arg Arg Tyr Phe Asp Ala Asp Leu Asp Glu Glu Ser Ile Arg Pro
 645 650 655
 Ile

<210> 7716
 <211> 625
 <212> PRT
 <213> Enterobacter cloacae

<400> 7716

Met	Lys	Gly	Gln	Glu	Thr	Arg	Gly	Phe	Gln	Ser	Glu	Val	Lys	Gln	Leu
1				5					10					15	
Leu	His	Leu	Met	Ile	His	Ser	Leu	Tyr	Ser	Asn	Lys	Glu	Ile	Phe	Leu
			20					25					30		
Arg	Glu	Leu	Ile	Ser	Asn	Ala	Ser	Asp	Ala	Ala	Asp	Lys	Leu	Arg	Phe
		35					40					45			
Arg	Ala	Leu	Ser	Asn	Pro	Asp	Leu	Tyr	Glu	Gly	Asp	Gly	Glu	Leu	Arg
		50				55					60				
Val	Arg	Val	Ser	Phe	Asn	Lys	Glu	Asn	Arg	Thr	Leu	Thr	Ile	Ala	Asp
65				70					75						80
Asn	Gly	Ile	Gly	Met	Asn	Arg	Asp	Glu	Val	Ile	Asp	His	Leu	Gly	Thr
			85						90					95	
Ile	Ala	Lys	Ser	Gly	Thr	Lys	Ala	Phe	Leu	Glu	Ser	Met	Gly	Ser	Asp
			100					105					110		
Gln	Ala	Lys	Asp	Ser	Gln	Leu	Ile	Gly	Gln	Phe	Gly	Val	Gly	Phe	Tyr
		115					120					125			
Ser	Ala	Phe	Ile	Val	Ala	Asp	Lys	Val	Thr	Val	Arg	Thr	Arg	Ala	Ala
		130				135					140				
Gly	Asp	Ser	Ala	Glu	Asn	Gly	Val	Leu	Trp	Glu	Ser	Lys	Gly	Glu	Gly
145				150					155						160
Glu	Tyr	Thr	Val	Asp	Asp	Ile	Thr	Lys	Ala	Asp	Arg	Gly	Thr	Glu	Ile
			165					170						175	
Thr	Leu	His	Leu	Arg	Glu	Gly	Glu	Tyr	Asp	Phe	Leu	Asn	Asp	Trp	Arg
			180					185					190		
Val	Arg	Ser	Ile	Ile	Ser	Lys	Tyr	Ser	Asp	His	Ile	Ala	Leu	Pro	Val
		195					200					205			
Glu	Ile	Glu	Lys	Gln	Glu	Glu	Lys	Asp	Gly	Glu	Thr	Val	Val	Ser	Trp
		210				215					220				
Glu	Lys	Ile	Asn	Lys	Ala	Gln	Ala	Leu	Trp	Thr	Arg	Asn	Lys	Ala	Glu
225				230					235						240
Ile	Lys	Asp	Asp	Glu	Tyr	Asn	Glu	Phe	Tyr	Lys	His	Ile	Ala	His	Asp
			245						250					255	
Phe	Thr	Asp	Pro	Leu	Thr	Trp	Ser	His	Asn	Arg	Val	Glu	Gly	Lys	Gln
			260					265					270		
Glu	Tyr	Thr	Ser	Leu	Leu	Tyr	Ile	Pro	Ala	Gln	Ala	Pro	Trp	Asp	Met
		275				280						285			
Trp	Asn	Arg	Asp	His	Lys	His	Gly	Leu	Lys	Leu	Tyr	Val	Gln	Arg	Val
		290				295					300				
Phe	Ile	Met	Asp	Asp	Ala	Glu	Gln	Phe	Met	Pro	Asn	Tyr	Leu	Arg	Phe
305				310					315						320
Val	Arg	Gly	Leu	Ile	Asp	Ser	Asn	Asp	Leu	Pro	Leu	Asn	Val	Ser	Arg
			325						330					335	
Glu	Ile	Leu	Gln	Asp	Ser	Thr	Val	Thr	Arg	Asn	Leu	Arg	Asn	Ala	Leu
		340						345					350		
Thr	Lys	Arg	Ala	Leu	Gln	Met	Leu	Glu	Lys	Leu	Ala	Lys	Asp	Asp	Ala
		355					360					365			
Glu	Lys	Tyr	Gln	Thr	Phe	Trp	Lys	Gln	Phe	Gly	Leu	Val	Leu	Lys	Glu
		370				375				380					
Gly	Pro	Ala	Glu	Asp	Thr	Ala	Asn	Val	Glu	Ala	Ile	Ala	Lys	Leu	Leu
385				390					395						400
Arg	Phe	Ala	Ser	Thr	His	Asn	Asp	Ser	Ser	Ala	Gln	Thr	Val	Ser	Leu
			405						410					415	
Glu	Glu	Tyr	Val	Ser	Arg	Met	Lys	Glu	Gly	Gln	Glu	Lys	Ile	Tyr	Tyr
		420						425					430		
Ile	Thr	Ala	Asp	Ser	Tyr	Ala	Ala	Ala	Lys	Ser	Ser	Pro	His	Leu	Glu

625

<211> 226

<213> Enterobacter cloacae

Lys 1	Ile	Glu	Ser	Thr 5	Phe	Glu	Gly	Ile	Phe 10	Ala	Met	Arg	Ile	Ile 15	Leu
Leu	Gly	Ala	Pro 20	Gly	Ala	Gly	Lys	Gly 25	Thr	Gln	Ala	Gln	Phe 30	Ile	Met
Glu	Lys	Tyr 35	Gly	Ile	Pro	Gln	Ile 40	Ser	Thr	Gly	Asp 45	Met	Leu	Arg	Ala
Ala	Val 50	Lys	Ser	Gly	Ser	Glu 55	Leu	Gly	Lys	Gln	Ala 60	Lys	Asp	Ile	Met
Asp 65	Ala	Gly	Lys	Leu	Val 70	Thr	Asp	Glu	Leu	Val 75	Ile	Ala	Leu	Val	Lys 80
Glu	Arg	Ile	Ala 85	Gln	Glu	Asp	Cys	Arg	Asn 90	Gly	Phe	Leu	Leu	Asp 95	Gly
Phe	Pro	Arg	Thr 100	Ile	Pro	Gln	Ala 105	Asp	Ala	Met	Lys	Glu	Ala 110	Gly	Ile
Asn	Val	Asp 115	Tyr	Val	Leu	Glu	Phe 120	Asp	Val	Pro	Asp	Glu 125	Leu	Ile	Val
Asp 130	Arg	Ile	Val	Gly	Arg	Arg 135	Val	His	Ala	Ala 140	Ser	Gly	Arg	Val	Tyr
His 145	Ile	Lys	Phe	Asn 150	Pro	Pro	Lys	Val	Glu	Gly 155	Lys	Asp	Asp	Val	Thr 160
Gly	Glu	Glu	Leu	Thr 165	Thr	Arg	Lys	Asp	Asp 170	Gln	Glu	Glu	Thr 175	Val	Arg
Lys	Arg	Leu 180	Val	Glu	Tyr	His	Gln 185	Met	Thr	Ala	Pro	Leu	Ile 190	Gly	Tyr
Tyr	Thr	Lys 195	Glu	Ala	Gln	Ala	Gly 200	Asn	Thr	Lys	Tyr	Ala 205	Lys	Val	Asp
Gly	Thr 210	Lys	Ala	Val	Ala	Asp 215	Val	Arg	Ala	Glu	Leu 220	Glu	Lys	Ile	Leu

Gly

225

<210> 7718

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 7718

Thr	His	Arg	His	Asp	Gly	Val	Thr	Gly	His	His	Pro	Pro	Leu	Ile	Ala
1				5				10						15	
Leu	Arg	Ala	Gly	Phe	Val	Leu	Pro	Phe	Pro	Ala	Arg	Ile	Leu	Cys	Thr
			20					25					30		
Val	Gln	Thr	Met	Lys	Phe	Pro	Gly	Lys	Arg	Lys	Ser	Lys	His	Tyr	Phe
			35				40					45			
Pro	Val	Asp	Ala	Arg	Asp	Pro	Leu	Leu	Gln	Gln	Ile	Gln	Gln	Glu	Ser
			50			55					60				
Glu	Thr	Ser	Ala	Ala	Trp	Val	Val	Gly	Ile	Asp	Gln	Thr	Leu	Val	Asp
65					70					75				80	
Ile	Glu	Ala	Lys	Val	Asp	Asp	Ala	Phe	Val	Ala	Arg	Tyr	Gly	Leu	Ser
				85				90						95	
Ala	Gly	His	Ser	Leu	Val	Ile	Glu	Asp	Val	Ala	Glu	Ala	Ala	Leu	Tyr
			100					105					110		
Gln	Glu	Leu	Val	Arg	Glu	Asn	Leu	Ile	Thr	His	Gln	Phe	Ala	Gly	Gly
			115				120					125			
Thr	Ile	Gly	Asn	Thr	Met	His	Asn	Tyr	Ser	Val	Leu	Ala	Asp	Asp	Arg
			130			135					140				
Ser	Val	Leu	Leu	Gly	Val	Met	Cys	Ser	Asn	Ile	Glu	Ile	Gly	Gly	Tyr
145					150				155						160
Ala	Tyr	Arg	Tyr	Leu	Cys	Asn	Thr	Ser	Ser	Arg	Thr	Asp	Leu	Asn	Tyr
				165					170					175	
Leu	Gln	Gly	Val	Asp	Gly	Pro	Ile	Gly	Arg	Cys	Phe	Thr	Leu	Ile	Ser
			180					185					190		
Asp	Ser	Gly	Glu	Arg	Thr	Phe	Ala	Ile	Ser	Pro	Gly	His	Met	Asn	Lys
			195			200					205				
Leu	Arg	Ala	Glu	Ser	Ile	Pro	Glu	Glu	Val	Ile	Ala	Gly	Ala	Ser	Ala
			210			215					220				
Leu	Val	Leu	Thr	Ser	Tyr	Leu	Val	Arg	Cys	Lys	Pro	Gly	Glu	Pro	Met
225					230					235					240
Pro	Asp	Ala	Thr	Met	Lys	Ala	Ile	Glu	Tyr	Ala	Lys	Lys	Tyr	Asn	Val
				245					250					255	
Pro	Val	Val	Leu	Thr	Leu	Gly	Thr	Lys	Phe	Val	Ile	Ala	Asp	Asn	Pro
			260					265					270		
Glu	Trp	Trp	Gln	Ala	Phe	Leu	Lys	Glu	His	Val	Ser	Ile	Leu	Ala	Met
			275				280					285			
Asn	Glu	Glu	Glu	Ala	Glu	Ala	Leu	Thr	Gly	Glu	Ser	Asp	Pro	Leu	Leu
			290			295					300				
Ala	Ser	Asp	Lys	Ala	Leu	Asp	Trp	Val	Asp	Leu	Val	Leu	Cys	Thr	Ala
305					310					315					320
Gly	Pro	Val	Gly	Leu	Tyr	Met	Ala	Gly	Phe	Thr	Glu	Glu	Glu	Ser	Lys
				325					330					335	
Arg	Lys	Thr	Gln	His	Pro	Leu	Leu	Pro	Gly	Ala	Ile	Ala	Glu	Phe	Asn
			340					345					350		
Gln	Tyr	Glu	Phe	Ser	Arg	Ala	Met	Arg	His	Lys	Asp	Cys	Ile	Asn	Pro
			355				360					365			
Leu	Arg	Ile	Phe	Ser	His	Ile	Ala	Pro	Tyr	Met	Gly	Gly	Pro	Glu	Lys
			370			375					380				
Ile	Met	Asn	Thr	Asn	Gly	Ala	Gly	Asp	Gly	Ala	Leu	Ala	Ala	Leu	Leu
385					390					395					400
His	Asp	Ile	Thr	Ala	Asn	Ala	Tyr	His	Lys	Thr	Asn	Val	Pro	Asn	Ser
				405					410					415	
Ser	Lys	His	Thr	Phe	Asp	Trp	Leu	Thr	Tyr	Ser	Ser	Leu	Ala	Gln	Val

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<210> 7719
<211> 1161
<212> PRT
<213> Enterobacter cloacae
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<400> 7719															
Ala 1	Ser	Pro	Pro	Phe 5	Tyr	Leu	Ile	Gly	Tyr 10	Gly	Lys	Asn	Arg	Arg 15	Pro
Phe	Pro	Ser	Tyr 20	Tyr	Ser	Ala	Ser	Ala 25	Gly	Arg	Asp	Ile 30	Leu	His	Ala
Arg	Leu	Phe 35	Pro	Val	Ile	Ser	His 40	Ile	Thr	Phe	Thr 45	Thr	Met	Leu	His
Ile	Asn 50	Arg	Ser	Gln	His	Leu 55	Val	Leu	Ala	Leu	Phe 60	Leu	Ile	Leu	Leu
Phe 65	Tyr	Phe	Ala	Ala	Ala 70	Pro	Leu	Ser	Trp	Ala 75	Arg	Ala	Asp	Asn	Gly 80
Ser	Asp	Ile	Pro	Thr 85	Arg	Ala	Asp	Val	Gln 90	Ala	Gln	Leu	Asp	Thr 95	Leu
Asn	Lys	Gln	Lys 100	Asp	Leu	Ser	Ala	Leu 105	Glu	Lys	Leu	Val	Gln 110	Gln	Asp
Leu	Thr	Glu 115	Thr	Leu	Glu	Thr	Leu 120	Asp	Lys	Ile	Glu	Arg 125	Ile	Lys	Ala
Glu	Thr 130	Ala	Gln	Leu	Arg	Gln 135	Lys	Val	Ala	Gln	Ala 140	Pro	Glu	Asn	Met
Arg 145	Lys	Ala	Thr	Glu 150	Ala	Leu	Asn	Ala	Leu	Ser 155	Asp	Val	Asp	Asn	Asp 160
Asp	Glu	Thr	Arg	Lys 165	Thr	Leu	Ala	Thr	Leu	Ser 170	Leu	Arg	Gln	Leu	Glu 175
Ser	Arg	Val	Ala 180	Gln	Leu	Leu	Asp	Asp 185	Leu	Gln	Thr	Ala	Gln 190	Ser	Asp
Leu	Ser	Thr	Tyr 195	Asn	Ser	Gln	Leu 200	Val	Ser	Leu	Gln	Thr 205	Gln	Pro	Glu
Arg	Val	Gln	Asn	Ala	Met	Tyr 215	Ser	Ala	Ser	Gln	Gln 220	Leu	Gln	Gln	Ile
Arg 225	Asn	Arg	Leu	Asn	Gly 230	Val	Thr	Val	Gly	Glu 235	Gly	Ala	Leu	Arg	Pro 240
Thr	Gln	Gln	Thr	Leu 245	Leu	Asn	Ile	Gln	Gln	Thr 250	Leu	Leu	Asn	Ala	Glu 255
Ile	Glu	Gln	Gln 260	Arg	Lys	Ser	Leu	Glu 265	Gly	Asn	Thr	Val	Leu	Gln	Asp 270
Ala	Leu	Gln	Lys 275	Gln	Arg	Asp	Tyr 280	Val	Thr	Ala	Asn	Ile 285	Asn	Arg	Leu
Glu	His	Gln	Leu	Gln	Leu	Leu 295	Gln	Glu	Ala	Val	Asn	Ser 300	Lys	Arg	Leu
Thr 305	Leu	Thr	Glu	Lys 310	Thr	Ala	Gln	Glu	Ala	Val 315	Ser	Pro	Asp	Glu	Thr 320
Ala	Arg	Ile	Gln	Ala 325	Asn	Pro	Leu	Val	Lys	Gln 330	Glu	Leu	Glu	Ile	Asn 335
His	Gln	Leu	Ser 340	Glu	Arg	Leu	Ile	Gln 345	Ala	Thr	Glu	Asn	Gly 350	Ser	Ala
Leu	Val	Gln	Gln 355	Asn	Ile	Lys	Val 360	Lys	Asn	Trp	Leu	Asp	Arg	Ala	Leu
Gln	Ala	Glu	Arg	Asn	Val	Lys	Glu	Gln	Ile	Ala	Val	Leu	Lys	Gly	Ser

370	375	380
Leu Leu Leu Ser Arg Ile	Leu Tyr Gln Gln Gln	Gln Thr Leu Pro Ser
385	390	395
Ala Asp Glu Leu Glu Asp	Met Thr Asn Arg Ile	Ala Asp Leu Arg Leu
	405	410
Glu Gln Phe Asp Val Asn	Gln Gln Arg Asp	Ala Leu Phe Gln Ser Asp
	420	425
Thr Phe Val Ala Lys Val	Glu Glu Gly His Ser	Gly Glu Val Asn Ala
	435	440
Glu Val His Asp Ala Leu	Leu Gln Val Val Asp	Met Arg Arg Glu Leu
	450	455
Leu Asp Gln Leu Asn Lys	Gln Leu Gly Asn Gln	Leu Met Met Ala Ile
465	470	475
Asn Leu Gln Ile Asn Gln	Gln Gln Leu Val Ser	Val Ser Lys Ser Leu
	485	490
Gln Glu Ile Leu Thr Gln	Gln Ile Phe Trp Val	Asn Ser Asn Lys Pro
	500	505
Met Asp Trp Asp Trp Phe	Lys Ser Phe Pro Glu	Thr Leu Lys Ser Gln
	515	520
Ile Lys Ser Met Lys Ile	Thr Val Asn Trp Glu	Lys Ala Trp Pro Ala
	530	535
Val Met Ile Ala Phe Leu	Ala Gly Leu Pro Leu	Leu Ile Ala Gly
545	550	555
Val Ile Arg Trp Arg Leu	Lys Trp Leu Lys Gln	Tyr Gln Ala Lys Leu
	565	570
Ala Ser Glu Val Gly Gln	Leu Arg Asn Asp Ser	Gln Leu His Thr Pro
	580	585
Lys Ala Ile Leu Ile Asp	Leu Ile Arg Ala Leu	Pro Val Cys Leu Leu
	595	600
Ile Leu Ala Val Gly Leu	Ile Leu Leu Thr Met	Gln Leu Asn Ile Ser
	610	615
Asp Leu Leu Trp Ala Phe	Ser Lys Lys Leu Ala	Leu Phe Trp Leu Val
625	630	635
Phe Gly Leu Cys Trp Lys	Val Leu Glu Lys Asp	Gly Val Ala Val Arg
	645	650
His Phe Asn Met Pro Glu	Lys Leu Thr Ser His	Trp Arg Arg Gln Ile
	660	665
Val Arg Ile Ser Leu Ala	Leu Leu Pro Leu His	Phe Trp Ser Val Val
	675	680
Ala Glu Leu Ser Pro Leu	His Leu Met Asp Asp	Val Leu Gly Gln Leu
	690	695
Val Ile Met Leu Asn Leu	Leu Leu Leu Ile Ala	Val Leu Met Trp Pro Met
705	710	715
Cys Arg Asp Ser Trp Arg	Asp Lys Glu Ser His	Asn Leu Arg Leu Val
	725	730
Thr Val Thr Val Leu Ala	Ile Ile Pro Leu Ala	Met Met Val Leu Thr
	740	745
Ala Thr Gly Tyr Phe Tyr	Thr Thr Leu Arg Leu	Ser Gly Arg Trp Ile
	755	760
Glu Thr Val Tyr Leu Val	Ile Val Trp Asn Leu	Leu Phe Gln Thr Val
	770	775
Leu Arg Gly Leu Ser Val	Ala Ala Arg Arg Ile	Ala Tyr Arg Arg Ala
785	790	795
Val Ala Arg Arg Gln His	Gln Val Lys Glu Gly	Ala Glu Gly Ala Glu
	805	810
Pro Gln Glu Glu Pro Thr	Ile Ala Leu Glu Gln	Val Asn Gln Gln Thr
	820	825
Met Arg Ile Thr Met Leu	Val Met Ile Ala Leu	Phe Ala Val Met Phe
	835	840
Trp Ala Ile Trp Ser Asp	Leu Ile Thr Val Phe	Ala Tyr Leu Asp Ser
	850	855
		860

Ile Thr Leu Trp Gln Tyr Asn Gly Thr Glu Ala Gly Ala Ala Val Met
 865 870 875 880
 Lys Ser Val Thr Met Gly Ser Leu Leu Phe Ala Leu Val Ser Ser Val
 885 890 895
 Val Ala Trp Ala Leu Ile Arg Asn Leu Pro Gly Leu Leu Glu Val Leu
 900 905 910
 Val Leu Ser Arg Leu Asn Leu Arg Gln Gly Ala Ser Tyr Ala Ile Thr
 915 920 925
 Thr Ile Leu Asn Tyr Val Ile Ile Ile Val Gly Ala Met Thr Val Phe
 930 935 940
 Gly Ser Leu Gly Val Ser Trp Asp Lys Leu Gln Trp Leu Ala Ala Ala
 945 950 955 960
 Leu Ser Val Gly Leu Gly Phe Gly Leu Gln Glu Ile Phe Gly Asn Phe
 965 970 975
 Val Ser Gly Leu Ile Ile Leu Phe Glu Arg Pro Val Arg Ile Gly Asp
 980 985 990
 Thr Val Thr Ile Gly Thr Phe Ser Gly Thr Val Ser Lys Ile Arg Ile
 995 1000 1005
 Arg Ala Thr Thr Ile Thr Asp Phe Asp Arg Lys Glu Val Ile Ile Pro
 1010 1015 1020
 Asn Lys Ala Phe Val Thr Glu Arg Leu Ile Asn Trp Ser Leu Ser Asp
 1025 1030 1035 1040
 Thr Thr Thr Arg Val Val Ile Arg Leu Gly Val Ala Tyr Gly Ser Asp
 1045 1050 1055
 Leu Asp Lys Val Lys Glu Val Leu Leu Glu Ala Ala Lys Ser His Pro
 1060 1065 1070
 Lys Val Met His Asp Pro Ala Pro Asp Val Phe Leu Thr Thr Phe Gly
 1075 1080 1085
 Pro Ser Thr Leu Asp His Glu Leu Arg Leu Tyr Val Arg Glu Leu Arg
 1090 1095 1100
 Asp Arg Ser Tyr Thr Val Asp Glu Leu Asn Arg Thr Ile Asp Arg Leu
 1105 1110 1115 1120
 Cys Arg Glu Asn Asn Ile Asn Ile Ala Phe Asn Gln Leu Glu Val His
 1125 1130 1135
 Leu Arg Asn Glu Lys Gly Asp Glu His Thr Glu Val Lys Arg Glu Ile
 1140 1145 1150
 Lys Gly Asp Asp Pro Thr Pro Ala
 1155 1160

<210> 7720

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 7720

Pro Phe Ser Leu Ile Thr Ile Arg Ile Met Gln Arg Thr Ile Leu Ile
 1 5 10 15
 Ile Ile Gly Trp Leu Ala Val Val Leu Gly Thr Leu Gly Val Val Leu
 20 25 30
 Pro Leu Leu Pro Thr Thr Pro Phe Ile Leu Leu Ala Ala Trp Cys Phe
 35 40 45
 Ala Arg Ser Ser Pro Arg Phe His His Trp Leu Leu Tyr Arg Ser Trp
 50 55 60
 Phe Gly Gly Tyr Leu Arg His Trp Gln Lys His Arg Ala Met Pro Pro
 65 70 75 80
 Gly Ala Lys Pro Arg Ala Ile Ala Phe Ile Leu Ile Thr Phe Ala Val
 85 90 95
 Ser Leu Trp Leu Val Lys Met Met Trp Val Arg Ile Leu Leu Leu Ala
 100 105 110
 Ile Leu Val Ser Leu Leu Leu Phe Met Trp Arg Ile Pro Val Val Asp
 115 120 125

Glu Lys Gln Gln Lys His
130 135

<210> 7721

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 7721

Asp	Ala	Ile	Leu	Met	Gln	Thr	Ser	Pro	Leu	Leu	Thr	Gln	Leu	Met	Glu
1				5					10					15	
Ala	Leu	Arg	Cys	Leu	Pro	Gly	Val	Gly	Pro	Lys	Ser	Ala	Gln	Arg	Met
			20					25					30		
Ala	Phe	Thr	Leu	Leu	Gln	Arg	Asp	Arg	Ser	Gly	Gly	Met	Arg	Leu	Ala
		35					40					45			
Gln	Ala	Leu	Thr	Arg	Ala	Met	Ser	Glu	Ile	Gly	His	Cys	Ala	Asp	Cys
	50					55					60				
Arg	Thr	Phe	Thr	Glu	Gln	Asp	Val	Cys	Asn	Ile	Cys	Thr	Asn	Pro	Arg
65					70				75					80	
Arg	Gln	Glu	Asn	Gly	Gln	Ile	Cys	Val	Val	Glu	Ser	Pro	Ala	Asp	Ile
			85						90					95	
Tyr	Ala	Ile	Glu	Gln	Thr	Gly	Gln	Phe	Ser	Gly	Arg	Tyr	Phe	Val	Leu
			100					105					110		
Met	Gly	His	Leu	Ser	Pro	Leu	Asp	Gly	Ile	Gly	Pro	Asp	Asp	Ile	Gly
		115					120					125			
Leu	Asp	Arg	Leu	Glu	Gln	Arg	Leu	Glu	Ser	Glu	Thr	Ile	Lys	Glu	Val
	130					135					140				
Ile	Leu	Ala	Thr	Asn	Pro	Thr	Val	Glu	Gly	Glu	Ala	Thr	Ala	Asn	Tyr
145					150					155					160
Ile	Ala	Glu	Leu	Cys	Ala	Gln	Tyr	Gly	Val	Asp	Ala	Ser	Arg	Ile	Ala
			165						170					175	
His	Gly	Val	Pro	Val	Gly	Gly	Glu	Leu	Glu	Met	Val	Asp	Gly	Thr	Thr
			180				185						190		
Leu	Ser	His	Ser	Leu	Ala	Gly	Arg	His	Lys	Ile	Ile	Phe			
		195					200					205			

<210> 7722

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7722

Met	Ser	Gln	Ala	Lys	Thr	Gly	Ile	Leu	Leu	Ala	Asn	Leu	Gly	Thr	Pro
1				5					10					15	
Glu	Ala	Pro	Thr	Pro	Ala	Ala	Val	Lys	Arg	Tyr	Leu	Arg	Gln	Phe	Leu
			20					25					30		
Ser	Asp	Thr	Arg	Val	Val	Asp	Thr	Pro	Arg	Leu	Leu	Trp	Trp	Pro	Leu
		35					40					45			
Leu	Arg	Gly	Val	Ile	Leu	Pro	Ile	Arg	Ser	Pro	Arg	Val	Ala	Lys	Leu
	50					55					60				
Tyr	Gln	Ser	Val	Trp	Met	Glu	Glu	Gly	Ser	Pro	Leu	Met	Val	Tyr	Ser
65					70				75					80	
Arg	Arg	Gln	Glu	Lys	Ala	Leu	Ala	Ala	Arg	Leu	Pro	Asp	Met	Pro	Val
				85					90					95	
Ala	Leu	Gly	Met	Ser	Tyr	Gly	Lys	Pro	Ser	Leu	Glu	Ser	Ala	Val	Asp
			100					105					110		
Ser	Leu	Leu	Ala	Gln	Gly	Val	Glu	His	Ile	Val	Val	Leu	Ala	Leu	Tyr
		115					120					125			
Pro	Gln	Tyr	Ser	Cys	Ser	Thr	Val	Ala	Ala	Val	Trp	Asp	Glu	Leu	Gly
	130					135					140				
Arg	Ile	Leu	Ala	Thr	Arg	Arg	Arg	Ile	Pro	Gly	Ile	Thr	Phe	Ile	Arg

145		150		155		160
Asp Tyr Ala Asp Asn Glu Leu Tyr Ile Gln Ala Leu Ala Ser Ser Val						
	165			170		175
Arg Ala Ser Phe Glu Lys His Gly Glu Pro Asp Leu Leu Leu Ser						
	180			185		190
Tyr His Gly Ile Pro Gln Arg Phe Ala Asn Glu Gly Asp Asp Tyr Pro						
	195			200		205
Gln Arg Cys Arg Asp Thr Thr Arg Glu Leu Val Ser Ala Leu Gly Leu						
	210			215		220
Pro Pro Glu Lys Val Met Met Thr Phe Gln Ser Arg Phe Gly Arg Glu						
225		230		235		240
Pro Trp Leu Thr Pro Tyr Thr Asp Glu Thr Leu Lys Met Leu Gly Glu						
	245			250		255
Lys Gly Val Lys His Ile Gln Val Met Ser Pro Gly Phe Ser Ala Asp						
	260			265		270
Cys Leu Glu Thr Leu Glu Glu Ile Ala Val Gln Asn Lys Glu Phe Phe						
	275			280		285
Met Glu Ala Gly Gly Thr Lys Tyr Glu Tyr Ile Pro Ala Leu Asn Asp						
	290			295		300
Ser Pro Glu His Ile Asp Met Met Val Ser Leu Val Thr Thr Arg Arg						
305		310		315		320

<210> 7723

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7723

Pro Ala Lys Ala Ile Arg Cys Trp Arg Leu Ile Arg Arg Trp Thr Gly		
1	5	10
Trp Thr Trp Cys Ser Ala Pro Pro Gly Arg Ser Gly Cys Thr Trp Arg		
	20	25
Ala Ser Arg Lys Lys Arg Ala Ser Val Lys Pro Ser Thr Arg Cys Cys		
	35	40
Arg Ala Gln Ser Pro Asn Leu Thr Ser Met Ser Ser Ala Ala Leu Cys		
	50	55
Val Ile Lys Thr Ala Ser Thr Arg Cys Val Ser Ser Leu Thr Ser His		
65	70	75
Arg Ile Trp Val Ala Leu Arg Arg Ser		
	85	90

<210> 7724

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 7724

Met Arg Ile Ser Gly Ser Asn Ser Ile Pro Thr Glu Thr Lys Asn Ser		
1	5	10
Thr Ala Asn Ala Ser Arg Ser Gly Arg Val Ser Cys Ala Ala Arg Trp		
	20	25
Leu Ser Ser Asp Ser Phe Ser Thr Ile Pro Ala Lys Asn Ala Pro Ser		
	35	40
Ala Lys Glu Thr Ser Asn Ser Ser Thr Ala Pro Lys Ala Met Pro Ser		
	50	55
Ala Ser Ala Arg Thr Glu Ser Val Asn Ser Ser Arg Glu Pro Val Ala		
65	70	75
Ala Leu Arg Asp Met Ile His Gly Thr Arg Arg Arg Pro Thr Ser Ile		
	85	90

Met Met Ala Ile Asn Ala Thr Thr Leu Pro Met Val Met Leu Ile Ser
 100 105 110
 Ser Ala Ser Glu Ala Lys Pro Ile Phe Ser Phe Ser Ile Ile Pro Ala
 115 120 125
 Thr Ala Gly Ser Arg Thr Ser Val Asn Thr Ile Thr Arg Ser Ser Thr
 130 135 140
 Ile Ser Gln Pro Ile Ala Ile Cys Pro Arg Trp Leu Ser Ile Ser Cys
 145 150 155 160
 Leu Ser Ser Ser Ala Arg Ser Ser Thr Thr Val Leu Ala Val Glu Arg
 165 170 175
 His Ser Pro Asn Thr Ile Pro Val Met Ile Asp Gln Pro Ser Thr Ala
 180 185 190
 Glu Ser Ala Met Pro Ser Ser Val Ala Thr Pro Ile Trp Ala Ile Ala
 195 200 205
 Pro Gly Met Ala Ile Asp Phe Thr Ala Ile Arg Ser Phe Arg Glu Lys
 210 215 220
 Cys Ser Pro Thr Pro Asn Ile Ser Arg Ile Thr Pro Asn Ser Ala Ser
 225 230 235 240
 Ser Gly Ala Ser Leu Val Ser Ala Thr Lys Pro Gly Val Lys Gly Pro
 245 250 255
 Ala Ser Thr Pro Ala Ser Lys
 260

<210> 7725

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 7725

Tyr Pro Val Tyr Gly Gly Ser Pro Glu Cys Ala Pro Val Arg Pro
 1 5 10 15
 Arg Arg Gln Leu Pro Trp Ser Thr Asn Thr Ala Asp Ile Glu Pro Ala
 20 25 30
 Pro Gln Cys Val Gln Arg Pro Ala Pro Ala Glu Ser Gln Arg Arg Phe
 35 40 45
 Pro Gly Thr Ala Tyr Arg Ser Ser Cys Arg Ala Gln Arg Ala Cys Pro
 50 55 60
 Ala Gly Gly Arg Pro Ala Pro Ser Pro Asp Asp Gly Cys Thr Pro Ser
 65 70 75 80
 Ala Ala Ser Pro Leu Pro Ser Thr Arg Thr Asp Arg Ala Leu Pro His
 85 90 95
 Ala Gly Asn Glu Ser Ala Glu
 100

<210> 7726

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 7726

Ala Ala Asp Trp Phe Ala Ser Glu Trp His Leu Lys Ala Arg Arg Gln
 1 5 10 15
 Leu His Thr Ala Gly Asn Arg Gly His Phe Leu Phe Leu Gly Phe Val
 20 25 30
 Asp Thr Ala Ser Gly Ile Val Lys Arg Gly Cys Asn Gln Ile Phe Gln
 35 40 45
 His Leu Phe Val Val Phe Glu Gln Ala Arg Val Asp Phe His Ala Thr
 50 55 60
 Ala Val Met Arg Thr Val Asp Gly His Leu Asp Gln Thr Gly Thr Gly
 65 70 75 80
 Phe Thr Arg Asp Phe Gln Leu Ser Asp Leu Phe Leu His Leu Leu His


```
<210> 7727
<211> 185
<212> PRT
<213> Enterobacter cloacae
```

Thr	Ala	Thr	Leu	Pro	Leu	Glu	Ser	Ala	Leu	Lys	Thr	Ala	Leu	Leu	Leu
1				5					10					15	
Glu	Arg	Leu	Gln	Asn	Gln	Leu	Ile	Ala	Leu	Arg	Ala	Gln	Ala	Thr	Pro
			20					25					30		
Leu	Met	Gly	His	Ala	Thr	Leu	Lys	Pro	Arg	Phe	Asp	Arg	Gln	Leu	Phe
		35					40					45			
Arg	Thr	Arg	Ser	Thr	Val	Ile	Gln	Asp	Tyr	Leu	Ala	Glu	Ala	Gln	Thr
	50					55					60				
Asn	Leu	Asp	Glu	Leu	Arg	His	Ala	Val	Glu	Ser	Glu	Gln	Gln	Glu	Gln
65					70					75				80	
Val	Ala	Trp	Leu	Ala	Glu	His	Leu	Thr	Glu	Gln	Ile	Thr	Ala	Leu	His
			85						90					95	
Arg	Glu	Ile	Ala	Ala	Trp	Pro	Leu	Arg	Ala	Trp	Asp	Ser	Ala	Ser	Pro
			100					105					110		
Gly	Leu	Gly	Lys	Trp	Gln	Arg	Lys	Arg	Leu	Glu	Asn	Gln	Glu	Phe	Glu
		115					120					125			
Arg	Arg	Leu	Phe	Glu	Met	Lys	Arg	Glu	Arg	Glu	Ala	Arg	Leu	Asn	Ile
		130				135					140				
Ser	Glu	Thr	Leu	Glu	Glu	Gln	Gln	Leu	Leu	Met	Arg	Glu	Ile	Ser	Ala
145					150					155				160	
Leu	Glu	Gly	Arg	Ile	Val	Arg	Cys	Arg	Gln	Ala	Leu	Asp	Glu	Ile	Glu
			165						170					175	
Arg	Val	Ile	Glu	Arg	Leu	Thr	Arg								
			180					185							

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<210> 7728
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

Gln	Glu	Pro	Leu	Met	Ser	Leu	Glu	Asn	Ala	Pro	Asp	Glu	Val	Lys	Leu
1				5					10					15	
Ala	Val	Asp	Leu	Ile	Met	Leu	Leu	Glu	Asn	His	Ala	Ile	Pro	Ala	Glu
			20					25					30		
Thr	Val	Leu	Lys	Ala	Leu	Glu	Ile	Val	Arg	Arg	Asp	Phe	Glu	Gly	Lys
		35					40					45			
Leu	Pro	Pro	His	Pro	Ala	Leu	Ser	Pro	Glu	Gly	Arg	Gly	Lys		
	50					55					60				

```
<210> 7729
<211> 422
<212> PRT
```

<213> Enterobacter cloacae

<400> 7729

Tyr Lys Arg Ser Asn Gly Phe Leu Asp Ser Gly Pro Leu Ile Asn Leu
 1 5 10 15
 Lys Ser Asp Thr Arg Gly Leu His Met Asn Lys Asn Arg Gly Leu Thr
 20 25 30
 Pro Leu Ala Val Val Leu Met Leu Ser Gly Ser Leu Ala Leu Thr Gly
 35 40 45
 Cys Asp Asp Lys Glu Ala Gln Gln Gly Ala Gln Gln Val Pro Glu Val
 50 55 60
 Gly Val Val Thr Leu Lys Ser Glu Pro Leu Gln Met Thr Thr Glu Leu
 65 70 75 80
 Pro Gly Arg Thr Ser Ala Tyr Arg Ile Ala Glu Val Arg Pro Gln Val
 85 90 95
 Ser Gly Ile Ile Leu Lys Arg Asn Phe Thr Glu Gly Gly Asp Val Lys
 100 105 110
 Ala Gly Glu Ser Leu Tyr Gln Ile Asp Pro Ala Thr Tyr Gln Ala Ser
 115 120 125
 Tyr Glu Ser Ala Lys Gly Asp Leu Ala Lys Ala Glu Ala Ala Ala Lys
 130 135 140
 Ile Ser Gln Leu Thr Leu Asn Arg Tyr Lys Lys Leu Leu Gly Thr Gln
 145 150 155 160
 Tyr Ile Ser Gln Gln Asp Tyr Asp Ser Ala Leu Ala Asp Ala Gln Gln
 165 170 175
 Ala Asn Ala Ala Val Val Ala Ala Lys Ala Ala Val Glu Thr Ala Arg
 180 185 190
 Ile Asn Leu Ala Tyr Thr Lys Val Thr Ser Pro Ile Ser Gly Arg Ile
 195 200 205
 Gly Lys Ser Ala Val Thr Glu Gly Ala Leu Val Gln Asn Gly Gln Thr
 210 215 220
 Asn Ala Leu Ala Thr Val Gln Gln Leu Asp Pro Ile Tyr Val Asp Val
 225 230 235 240
 Thr Gln Ser Ser Asn Asp Phe Leu Arg Leu Lys Gln Glu Leu Ala Ser
 245 250 255
 Gly Gln Leu Lys Gln Glu Asn Gly Lys Ala Lys Val Glu Leu Val Thr
 260 265 270
 Asn Asp Gly Ile Glu Phe Ser Gln Thr Gly Thr Leu Glu Phe Ser Asp
 275 280 285
 Val Thr Val Asp Gln Thr Thr Gly Ser Ile Thr Ile Arg Ala Ile Phe
 290 295 300
 Pro Asn Pro Asp Lys Thr Leu Leu Pro Gly Met Phe Val Arg Ala Arg
 305 310 315 320
 Leu Glu Glu Gly Thr Asn Pro Ser Ala Ile Leu Val Pro Gln Gln Gly
 325 330 335
 Val Thr Arg Thr Pro Arg Gly Asp Ala Ser Ala Leu Val Val Gly Ala
 340 345 350
 Asp Asn Lys Val Glu Met Arg Asn Ile Thr Ala Thr Gln Ala Ile Gly
 355 360 365
 Asp Lys Trp Leu Val Thr Glu Gly Leu Lys Asp Gly Asp Arg Val Ile
 370 375 380
 Ile Thr Gly Leu Gln Lys Val Arg Pro Gly Ala Gln Val Lys Ala Gln
 385 390 395 400
 Glu Val Lys Ser Asp Asp Lys Gln Gln Ala Ser Ala Ala Gly Gln Ser
 405 410 415
 Glu Gln Thr Lys Ser
 420

<210> 7730

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 7730

```

Ser Lys Leu Met Asn Thr Trp Thr Thr Pro Leu Cys Cys Ser Ala Ala
1      5      10      15
Thr Ala Leu Thr His Arg Ile Cys Arg Asn Gly Val Asn Gln Glu Thr
20      25      30
Ala Tyr Phe Ala Ala Ser Leu Met Ser Ala Glu Leu Ile Arg Leu Val
35      40      45
Phe Pro Val Lys Ile Ile Thr Ile Thr Lys Val Asn Leu Cys Leu Ile
50      55      60
Asn His
65

```

<210> 7731

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 7731

```

Asn Asp Ser Arg Glu Val Pro Met Ser Glu Glu Lys Gln Lys Met Ile
1      5      10      15
Ala Gly Glu Tyr Tyr Arg Pro Gly Asp Thr Leu Arg Ala Asn Arg
20      25      30
Leu Arg Ala Arg His Leu Val His Arg Tyr Asn His Thr Ala Pro Asp
35      40      45
Glu Lys Ala Glu Arg Arg Ala Leu Leu Ala Asp Leu Leu Gly Gln Ser
50      55      60
Glu Gly Ala Tyr Ile Glu Pro Ser Phe Arg Cys Asp Tyr Gly Tyr Asn
65      70      75      80
Ile Tyr Leu Gly Lys Asn Phe Tyr Ala Asn Phe Asp Cys Val Met Leu
85      90      95
Asp Val Cys Pro Val Arg Ile Gly Asp Asn Cys Met Leu Ala Pro Gly
100     105     110
Val His Ile Tyr Thr Ala Thr His Pro Leu Asp Ala Thr Glu Arg Asn
115     120     125
Ser Gly Leu Glu Tyr Gly Lys Pro Val Thr Ile Gly Asp Asn Val Trp
130     135     140
Ile Gly Gly Arg Ala Ile Ile Asn Pro Gly Val Thr Ile Gly Asp Asn
145     150     155     160
Ala Val Ile Ala Ser Gly Ala Val Val Thr Lys Asp Val Pro Ala Asn
165     170     175
Ala Val Val Gly Gly Asn Pro Ala Lys Ile Ile Lys Met Leu
180     185     190

```

<210> 7732

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 7732

```

Ser Leu His Tyr Phe Thr Leu Leu Ala Ile Ile Gly Phe Val Leu Ala
1      5      10      15
Ser Ala Phe Ser Val Ile Leu Val Tyr Ala Gln Glu Leu Leu Pro Gly
20      25      30
Arg Ile Gly Met Val Ser Gly Leu Phe Phe Gly Phe Ala Phe Gly Met
35      40      45
Gly Gly Leu Gly Ala Ala Val Leu Gly Met Val Ala Asp His Thr Ser
50      55      60
Ile Phe Leu Val Tyr Lys Ile Cys Ala Phe Leu Pro Leu Leu Gly Met
65      70      75      80

```

Leu Thr Ile Phe Leu Pro Asp Asn Arg His Lys Ala
85 90

<210> 7733

<211> 1038

<212> PRT

<213> Enterobacter cloacae

<400> 7733

Asp	Met	Pro	Asn	Phe	Phe	Ile	Asp	Arg	Pro	Ile	Phe	Ala	Trp	Val	Ile
1			5						10					15	
Ala	Ile	Ile	Ile	Met	Leu	Ala	Gly	Gly	Leu	Ala	Ile	Leu	Lys	Leu	Pro
			20					25					30		
Val	Ala	Gln	Tyr	Pro	Thr	Ile	Ala	Pro	Pro	Ala	Val	Thr	Ile	Ser	Ala
		35					40					45			
Thr	Tyr	Pro	Gly	Ala	Asp	Ala	Lys	Thr	Val	Gln	Asp	Thr	Val	Thr	Gln
	50					55					60				
Val	Ile	Glu	Gln	Asn	Met	Asn	Gly	Ile	Asp	Asn	Leu	Met	Tyr	Met	Ser
65				70					75						80
Ser	Asn	Ser	Asp	Ser	Thr	Gly	Thr	Val	Gln	Ile	Thr	Leu	Thr	Phe	Glu
				85					90					95	
Ser	Gly	Thr	Asp	Ala	Asp	Ile	Ala	Gln	Val	Gln	Val	Gln	Asn	Lys	Leu
			100					105					110		
Gln	Leu	Ala	Met	Pro	Leu	Leu	Pro	Gln	Glu	Val	Gln	Gln	Gln	Gly	Val
		115					120					125			
Ser	Val	Glu	Lys	Ser	Ser	Ser	Ser	Phe	Leu	Met	Val	Val	Gly	Val	Ile
	130					135					140				
Asn	Thr	Asn	Gly	Thr	Met	Thr	Gln	Glu	Asp	Ile	Ser	Asp	Tyr	Val	Gly
145					150				155						160
Ala	Asn	Met	Lys	Asp	Ala	Ile	Ser	Arg	Thr	Ser	Gly	Val	Gly	Asp	Val
				165					170					175	
Gln	Leu	Phe	Gly	Ser	Gln	Tyr	Ala	Met	Arg	Ile	Trp	Met	Asp	Pro	Asn
		180						185					190		
Lys	Leu	Asn	Asn	Phe	Gln	Leu	Thr	Pro	Val	Asp	Val	Ile	Asn	Ala	Ile
		195					200					205			
Lys	Ala	Gln	Asn	Ala	Gln	Val	Ala	Ala	Gly	Gln	Leu	Gly	Gly	Thr	Pro
	210					215					220				
Pro	Val	Lys	Gly	Gln	Gln	Leu	Asn	Ala	Ser	Ile	Ile	Ala	Gln	Thr	Arg
225					230					235					240
Leu	Thr	Ser	Ala	Asp	Glu	Phe	Ser	Lys	Ile	Leu	Leu	Lys	Val	Asn	Gln
				245					250					255	
Asp	Gly	Ser	Gln	Val	Arg	Leu	Arg	Asp	Val	Ala	Lys	Val	Glu	Leu	Gly
			260					265					270		
Gly	Glu	Asn	Tyr	Asp	Val	Ile	Ala	Lys	Phe	Asn	Gly	Lys	Pro	Ala	Ser
		275					280					285			
Gly	Leu	Gly	Ile	Lys	Leu	Ala	Thr	Gly	Ala	Asn	Ala	Leu	Asp	Thr	Ala
	290					295					300				
Thr	Ala	Ile	Arg	Ala	Glu	Leu	Lys	Lys	Met	Glu	Pro	Phe	Phe	Pro	Ser
305					310					315					320
Gly	Leu	Lys	Ile	Val	Tyr	Pro	Tyr	Asp	Thr	Thr	Pro	Phe	Val	Lys	Ile
				325					330					335	
Ser	Ile	His	Glu	Val	Val	Lys	Thr	Leu	Val	Glu	Ala	Ile	Ile	Leu	Val
			340					345					350		
Phe	Leu	Val	Met	Tyr	Leu	Phe	Leu	Gln	Asn	Phe	Arg	Ala	Thr	Leu	Ile
		355					360					365			
Pro	Thr	Ile	Ala	Val	Pro	Val	Val	Leu	Leu	Gly	Thr	Phe	Ala	Val	Leu
	370					375					380				
Ala	Ile	Phe	Gly	Tyr	Ser	Ile	Asn	Thr	Leu	Thr	Met	Phe	Gly	Met	Val
385					390					395					400
Leu	Ala	Ile	Gly	Leu	Leu	Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn
				405					410					415	

3646 7733 1038 PRT Enterobacter cloacae

Val	Glu	Arg	Val	Met	Ala	Glu	Glu	Gly	Leu	Pro	Pro	Lys	Glu	Ala	Thr
			420					425					430		
Arg	Lys	Ser	Met	Gly	Gln	Ile	Gln	Gly	Ala	Leu	Val	Gly	Ile	Ala	Met
		435					440					445			
Val	Leu	Ser	Ala	Val	Phe	Ile	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr
	450					455					460				
Gly	Ala	Ile	Tyr	Arg	Gln	Phe	Ser	Ile	Thr	Ile	Val	Ser	Ala	Met	Ala
465					470					475					480
Leu	Ser	Val	Leu	Val	Ala	Leu	Ile	Leu	Thr	Pro	Ala	Leu	Cys	Ala	Thr
			485						490					495	
Met	Leu	Lys	Pro	Ile	Gln	Lys	Gly	Gly	His	Gly	Glu	His	Lys	Gly	Phe
			500					505					510		
Phe	Gly	Trp	Phe	Asn	Arg	Met	Phe	Asp	Lys	Ser	Thr	His	His	Tyr	Thr
		515					520					525			
Asp	Ser	Val	Gly	Asn	Ile	Leu	Arg	Ser	Thr	Gly	Arg	Tyr	Leu	Leu	Leu
	530					535					540				
Tyr	Ile	Ile	Ile	Val	Val	Gly	Met	Ala	Phe	Leu	Phe	Val	Arg	Leu	Pro
545					550					555					560
Ser	Ser	Phe	Leu	Pro	Asp	Glu	Asp	Gln	Gly	Val	Phe	Leu	Ser	Met	Ala
				565					570					575	
Gln	Leu	Pro	Ala	Gly	Ala	Thr	Gln	Glu	Arg	Thr	Gln	Lys	Val	Leu	Asp
			580					585					590		
Glu	Met	Thr	Asp	Tyr	Phe	Leu	Thr	Lys	Glu	Lys	Asp	Asn	Val	Glu	Ser
		595					600					605			
Val	Phe	Ala	Val	Asn	Gly	Phe	Gly	Phe	Ala	Gly	Arg	Gly	Gln	Asn	Thr
	610					615					620				
Gly	Ile	Ala	Phe	Val	Ser	Leu	Lys	Asp	Trp	Ser	Glu	Arg	Pro	Gly	Ala
625					630					635					640
Glu	Asn	Lys	Val	Glu	Ala	Ile	Thr	Gly	Arg	Ala	Met	Gly	Thr	Phe	Ser
				645					650					655	
Gln	Ile	Lys	Asp	Ala	Met	Val	Phe	Ala	Phe	Asn	Leu	Pro	Ala	Ile	Val
			660					665					670		
Glu	Leu	Gly	Thr	Ala	Thr	Gly	Phe	Asp	Phe	Gln	Leu	Ile	Asp	Gln	Gly
		675				680						685			
Gly	Leu	Gly	His	Glu	Lys	Leu	Thr	Gln	Ala	Arg	Asn	Gln	Leu	Phe	Gly
	690					695					700				
Glu	Val	Ala	Lys	His	Pro	Asp	Leu	Leu	Val	Gly	Val	Arg	Pro	Asn	Gly
705					710					715					720
Leu	Glu	Asp	Thr	Pro	Gln	Tyr	Lys	Ile	Asp	Ile	Asp	Gln	Glu	Lys	Ala
				725					730					735	
Gln	Ala	Leu	Gly	Val	Ser	Ile	Ser	Asp	Ile	Asn	Thr	Thr	Leu	Gly	Ala
			740					745					750		
Ala	Trp	Gly	Gly	Ser	Tyr	Val	Asn	Asp	Phe	Ile	Asp	Arg	Gly	Arg	Val
		755					760				765				
Lys	Lys	Val	Tyr	Val	Met	Ser	Glu	Ala	Gln	Tyr	Arg	Met	Leu	Pro	Asn
	770					775					780				
Asp	Ile	Asn	Asn	Trp	Tyr	Val	Arg	Gly	Ser	Asp	Gly	Gln	Met	Val	Pro
785					790					795					800
Phe	Ser	Ala	Phe	Ser	Thr	Ser	Arg	Trp	Glu	Tyr	Gly	Ser	Pro	Arg	Leu
			805						810					815	
Glu	Arg	Tyr	Asn	Gly	Leu	Pro	Ser	Met	Glu	Ile	Leu	Gly	Gln	Ala	Ala
			820					825					830		
Pro	Gly	Arg	Ser	Thr	Gly	Glu	Ala	Met	Asn	Leu	Met	Glu	Glu	Leu	Ala
			835				840					845			
Ser	Lys	Leu	Pro	Ala	Gly	Ile	Gly	Tyr	Asp	Trp	Thr	Gly	Met	Ser	Tyr
	850					855					860				
Gln	Glu	Arg	Leu	Ser	Gly	Asn	Gln	Ala	Pro	Ala	Leu	Tyr	Ala	Ile	Ser
865					870					875					880
Leu	Ile	Val	Val	Phe	Leu	Cys	Leu	Ala	Ala	Leu	Tyr	Glu	Ser	Trp	Ser
				885					890					895	
Ile	Pro	Phe	Ser	Val	Met	Leu	Val	Val	Pro	Leu	Gly	Val	Ile	Gly	Ala

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<210> 7734
<211> 580
<212> PRT
<213> Enterobacter cloacae
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<400> 7734															
Thr 1	Ile	Asn	Arg	Leu 5	Phe	Gly	Ile	Cys	Thr 10	Lys	Asn	Gly	Ser	Pro 15	Ile
Ala	Lys	Gly	Asp 20	Gly	Met	His	His	Ala 25	Thr	Pro	Leu	Ile	Thr 30	Thr	Ile
Val	Gly	Gly 35	Leu	Val	Leu	Ala	Phe 40	Ile	Leu	Gly	Met	Ile 45	Ala	Asn	Lys
Leu	Arg 50	Ile	Ser	Pro	Leu	Val 55	Gly	Tyr	Leu	Leu	Ala 60	Gly	Val	Leu	Ala
Gly 65	Pro	Phe	Thr	Pro	Gly 70	Phe	Val	Ala	Asp 75	Thr	Lys	Leu	Ala	Pro	Glu 80
Leu	Ala	Glu	Leu	Gly 85	Val	Ile	Leu	Leu	Met 90	Phe	Gly	Val	Gly	Leu 95	His
Phe	Ser	Leu	Lys 100	Asp	Leu	Met	Ala	Val 105	Lys	Ser	Ile	Ala	Ile	Pro	Gly
Ala	Ile	Ala 115	Gln	Ile	Gly	Val	Ala 120	Thr	Leu	Leu	Gly	Met 125	Ala	Leu	Ser
Ala	Val 130	Leu	Gly	Trp	Ser	Ile 135	Met	Thr	Gly	Ile	Val 140	Phe	Gly	Leu	Cys
Leu 145	Ser	Thr	Ala	Ser	Thr 150	Val	Val	Leu	Leu	Arg 155	Ala	Leu	Glu	Glu	Arg 160
Gln	Leu	Ile	Asp	Ser 165	Gln	Arg	Gly	Gln	Ile 170	Ala	Ile	Gly	Trp	Leu 175	Ile
Val	Glu	Asp	Leu 180	Val	Met	Val	Leu	Thr 185	Leu	Val	Leu	Leu	Pro 190	Ala	Val
Ala	Gly	Met 195	Met	Glu	Lys	Glu	Asn 200	Ile	Gly	Phe	Ala	Ser 205	Leu	Ala	Leu
Asp	Met 210	Ser	Ile	Thr	Ile	Gly 215	Lys	Val	Val	Ala	Phe 220	Ile	Ala	Ile	Met
Met 225	Leu	Val	Gly	Arg	Arg 230	Leu	Val	Pro	Trp	Ile 235	Met	Ser	Arg	Ser	Ala 240
Ala	Thr	Gly	Ser	Arg 245	Glu	Leu	Phe	Thr	Leu 250	Ser	Val	Leu	Ala	Leu 255	Ala
Leu	Gly	Ile	Ala 260	Phe	Gly	Ala	Val	Glu 265	Leu	Phe	Asp	Val	Ser 270	Phe	Ala
Leu	Gly	Ala 275	Phe	Phe	Ala	Gly	Met 280	Val	Leu	Asn	Glu	Ser 285	Glu	Leu	Ser
His	Arg	Ala	Ala	His	Asp	Thr	Leu	Pro	Leu	Arg	Asp	Ala	Phe	Ala	Val

290 295 300
 Leu Phe Phe Val Ser Val Gly Met Leu Phe Asp Pro Leu Ile Leu Ile
 305 310 315 320
 Gln Gln Pro Leu Ala Val Leu Gly Thr Leu Ala Ile Ile Ile Phe Gly
 325 330 335
 Lys Ser Val Ala Ala Phe Phe Leu Val Arg Met Phe Gly His Ser Pro
 340 345 350
 Arg Thr Ala Leu Thr Ile Ala Ala Ser Leu Ala Gln Ile Gly Glu Phe
 355 360 365
 Ala Phe Ile Leu Ala Gly Leu Gly Met Ala Leu Asn Leu Leu Pro Gln
 370 375 380
 Ala Gly Gln Asn Leu Val Leu Ala Gly Ala Ile Leu Ser Ile Met Leu
 385 390 395 400
 Asn Pro Val Leu Phe Ala Leu Leu Glu Lys Tyr Leu Glu Lys Thr Glu
 405 410 415
 Thr Leu Glu Glu Leu Thr Leu Glu Glu Ala Thr Glu Glu Glu Lys Gln
 420 425 430
 Ile Pro Val Asp Ile Cys Asn His Ala Leu Leu Val Gly Phe Gly Arg
 435 440 445
 Val Gly Ser Leu Leu Gly Glu Lys Leu Met Ala Gln Gly Ile Pro Leu
 450 455 460
 Val Val Ile Glu Thr Ser Arg Thr Arg Val Asp Glu Leu Arg Glu Arg
 465 470 475 480
 Gly Ile Arg Ala Val Leu Gly Asn Ala Ala Asn Glu Glu Ile Met Asn
 485 490 495
 Leu Ala His Leu Asp Cys Ala Arg Trp Leu Leu Leu Thr Ile Pro Asn
 500 505 510
 Gly Tyr Glu Ala Gly Glu Ile Val Ala Thr Ala Arg Glu Lys Cys Pro
 515 520 525
 His Ile Glu Ile Ile Ala Arg Ala His Tyr Asp Asp Glu Val Glu Tyr
 530 535 540
 Ile Thr Glu Arg Gly Ala Asn Gln Val Val Met Gly Glu Arg Glu Ile
 545 550 555 560
 Ala Asn Thr Met Leu Thr Met Leu Thr Lys Pro Pro Val Glu Glu Ala
 565 570 575
 Val Thr Gly
 580

<210> 7735

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 7735

Cys Ser Val Ser Lys Lys Ser Leu Arg Arg Gly Cys Ala Met Asp Glu
 1 5 10 15
 Tyr Ser Pro Lys Arg His Asp Ile Ala Gln Leu Lys Phe Leu Cys Glu
 20 25 30
 Ser Leu Tyr His Asp Cys Leu Ala Asn Leu Glu Glu Ser Asn His Gly
 35 40 45
 Trp Val Asn Asp Pro Thr Ser Ala Ile Asn Leu Gln Leu Asn Glu Leu
 50 55 60
 Ile Glu His Ile Ala Thr Phe Ala Leu Asn Tyr Lys Ile Lys Tyr Asn
 65 70 75 80
 Glu Asp Asn Lys Leu Ile Glu Gln Ile Asp Glu Tyr Leu Asp Asp Thr
 85 90 95
 Phe Met Leu Phe Ser Ser Tyr Gly Ile Asn Ala Gln Asp Leu Gln Lys
 100 105 110
 Trp Arg Lys Ser Gly Asn Arg Leu Phe Arg Cys Phe Thr Asn Val Ser
 115 120 125
 Arg Ala Asn Pro Val Ser Leu Ser Cys

130

135

<210> 7736

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7736

Gly	Glu	Phe	Met	Ser	Asp	Lys	Pro	Leu	Thr	Lys	Val	Asp	Tyr	Leu	Met
1				5					10					15	
Arg	Leu	Arg	Arg	Cys	Gln	Ser	Ile	Asp	Thr	Leu	Glu	Arg	Val	Ile	Glu
			20					25					30		
Lys	Asn	Lys	Tyr	Glu	Leu	Ser	Asp	Asn	Glu	Leu	Ala	Val	Phe	Tyr	Ser
		35					40					45			
Ala	Ala	Asp	His	Arg	Leu	Ala	Glu	Leu	Thr	Met	Asn	Lys	Leu	Tyr	Asp
	50					55					60				
Lys	Ile	Pro	Ser	Ser	Val	Trp	Lys	Phe	Val	Arg					
65					70					75					

<210> 7737

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 7737

Arg	Gln	Lys	Met	Thr	Glu	Ile	Gln	Arg	Leu	Leu	Thr	Ala	Thr	Ile	Asp
1				5					10					15	
Asp	Leu	Asn	Thr	Arg	Glu	Lys	Arg	Asp	Asn	Arg	Pro	Arg	Phe	Ser	Ile
			20					25					30		
Ser	Phe	Ile	Arg	Lys	His	Pro	Gly	Leu	Phe	Val	Ala	Met	Tyr	Ala	Ala
		35					40					45			
Trp	Leu	Ala	Thr	Leu	Ile	Val	Met	Leu	Lys	Ser	Glu	Thr	Leu	Val	Asp
	50					55					60				
Ser	Val	Trp	Leu	Leu	Val	Val	Leu	Phe	Val	Val	Phe	Asn	Ala	Phe	Phe
65					70					75				80	
Phe	Phe	Asp	Val	Asn	Pro	Arg	Tyr	Arg	Tyr	Glu	Asp	Ile	Asp	Val	Leu
				85					90					95	
Asp	Phe	Arg	Val	Cys	Tyr	Asn	Gly	Glu	Trp	Tyr	Asn	Thr	Arg	Tyr	Val
			100					105					110		
Pro	Lys	Glu	Leu	Ile	Asp	Ser	Ile	Leu	His	Ser	Pro	Ala	Val	Glu	Ala
		115					120					125			
Gly	Gln	Lys	Glu	Lys	Leu	Gln	Lys	Met	Val	Thr	Thr	Lys	Gly	Gln	Leu
	130					135						140			
Ser	Phe	Tyr	Asp	Val	Phe	Thr	Leu	Ser	Arg	Pro	Thr	Ala	Ala		
145					150					155					

<210> 7738

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 7738

Ser	Gly	Asp	Leu	Leu	Asn	Ile	Met	Glu	Ile	Lys	Met	Asn	Thr	Phe	Asn
1				5					10					15	
Glu	Phe	Gly	Gln	Pro	Val	Gly	Glu	Ser	Leu	Ile	Asp	Trp	Gln	Pro	Arg
			20					25					30		
Pro	His	Pro	Ser	Arg	Val	Val	Leu	Gln	Gly	Arg	Tyr	Cys	Arg	Leu	Glu
		35					40					45			
Pro	Leu	Arg	Met	Glu	His	Ala	His	Ala	Leu	Phe	Ser	Ala	Tyr	Ser	Val
	50					55					60				
Ala	Gly	Asp	Thr	Arg	Ser	Trp	Thr	Trp	Leu	Leu	Arg	Glu	Pro	Asp	Ala

65					70					75				80
Thr	Ala	Glu	Glu	Phe	Ala	Glu	Trp	Val	Ala	Ser	Val	Ser	Glu	Leu
				85					90					95
Asp	Pro	Ile	His	Phe	Thr	Val	Ile	Asp	Asn	Gln	Thr	Gln	Ser	Pro
			100					105					110	Val
Gly	Thr	Leu	Ser	Leu	Met	Arg	Ile	Asp	Pro	Lys	Asn	Gly	Val	Val
		115					120					125		Glu
Val	Gly	His	Val	His	Phe	Ser	Ser	Leu	Leu	Ser	Arg	Thr	Pro	Met
	130					135					140			Ser
Thr	Glu	Ala	Gln	Tyr	Leu	Leu	Met	Arg	Tyr	Val	Phe	Asp	Thr	Leu
145					150					155				Gly
Tyr	Arg	Arg	Tyr	Glu	Trp	Lys	Cys	Asn	Ser	Leu	Asn	Glu	Pro	Ser
				165					170					Arg
Lys	Ala	Ala	Leu	Arg	Leu	Gly	Phe	Gln	Phe	Glu	Gly	Arg	Phe	Arg
			180					185					190	Gln
Ala	Leu	Val	Ile	Lys	Gly	Arg	Asn	Arg	Asp	Thr	Asp	Trp	Phe	Ser
		195					200					205		Ile
Leu	Asp	Lys	Glu	Trp	Pro	Ala	Leu	Ala	Ser	Ala	Phe	Glu	Ser	Trp
	210					215					220			Leu
Ala	Thr	Asp	Asn	Phe	Thr	Ala	Asp	Gly	Lys	Gln	Lys	Arg	Ser	Leu
225					230					235				Glu
Ser	Trp	Arg	Glu	Thr	Arg	Val								
				245										

<210> 7739

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 7739

Arg	Tyr	Ala	Gln	Glu	Leu	Gln	Met	Ala	Arg	Ser	Trp	Val	Arg	Leu	Phe
1				5				10						15	
Ala	Gly	Ala	Thr	Leu	Thr	Leu	Ser	Leu	Thr	Gly	His	Ala	Leu	Ala	Asp
			20					25					30		
Glu	Gly	Lys	Ile	Thr	Val	Phe	Ala	Ala	Ala	Ser	Leu	Thr	Asn	Ala	Met
		35					40					45			
Gln	Asp	Ile	Ala	Ala	Val	Tyr	Lys	Lys	Glu	Lys	Asn	Val	Glu	Val	Val
	50					55					60				
Ser	Ser	Phe	Ala	Ser	Ser	Ser	Thr	Leu	Ala	Arg	Gln	Ile	Glu	Ala	Gly
65					70					75					80
Ala	Pro	Ala	Asp	Leu	Phe	Ile	Ser	Ala	Asp	Gln	Lys	Trp	Met	Asp	Tyr
				85					90					95	
Ala	Val	Glu	Lys	Lys	Ser	Val	Asp	Thr	Ala	Thr	Arg	Glu	Thr	Leu	Leu
			100					105					110		
Gly	Asn	Ser	Leu	Val	Val	Val	Ala	Pro	Ala	Asn	Ser	Lys	Gln	Gly	Asp
	115						120					125			
Ile	Ala	Ile	Asn	Lys	Gln	Thr	Asp	Trp	Thr	Arg	Leu	Leu	Asn	Gly	Gly
	130					135					140				
Arg	Leu	Ala	Val	Gly	Asp	Pro	Glu	His	Val	Pro	Ala	Gly	Ile	Tyr	Ala
145					150					155					160
Lys	Glu	Ala	Leu	Gln	Lys	Leu	Gly	Ala	Trp	Glu	Thr	Leu	Ser	Pro	Lys
				165					170					175	
Leu	Ala	Pro	Ala	Glu	Asp	Val	Arg	Gly	Ala	Leu	Ala	Leu	Val	Glu	Arg
			180					185					190		
Asn	Glu	Val	Pro	Leu	Gly	Ile	Val	Tyr	Gly	Ser	Asp	Ala	Val	Ala	Ser
	195						200					205			
Lys	Gly	Val	Lys	Val	Val	Gly	Thr	Phe	Pro	Glu	Asp	Ser	His	Lys	Lys
	210					215					220				
Val	Glu	Tyr	Pro	Val	Ala	Ile	Val	Asp	Gly	His	Lys	Asn	Ala	Ser	Val
225					230					235					240
Thr	Ala	Phe	Val	Asp	Tyr	Leu	Lys	Gly	Pro	Glu	Ala	Ser	Ala	Ile	Phe

Lys Arg Tyr Gly Phe Thr Thr His Glu
 260 245 250 255
 265

<210> 7740
 <211> 336
 <212> PRT
 <213> Enterobacter cloacae

<400> 7740
 Ser Gly Val Phe Met Lys Gln Thr Val Tyr Thr Ala Ser Pro Glu Ser
 1 5 10 15
 Gln Gln Ile His Val Trp Arg Leu Asn Thr Glu Gly Ser Leu Thr Leu
 20 25 30
 Val Gln Val Val Asp Val Pro Gly Gln Val Gln Pro Met Val Val Ser
 35 40 45
 Pro Asp Lys Arg Phe Leu Tyr Val Gly Val Arg Pro Glu Phe Arg Val
 50 55 60
 Leu Ala Tyr Arg Ile Ser Pro Asp Asp Gly Ala Leu Thr Tyr Thr Ala
 65 70 75 80
 Glu Ala Pro Leu Pro Gly Ser Pro Thr His Ile Ser Thr Asp His Lys
 85 90 95
 Gly Asn Phe Ile Phe Ser Gly Ser Tyr Asn Ala Gly Ser Val Ser Val
 100 105 110
 Thr Arg Leu Glu Asp Gly Ile Pro Val Glu Thr Val Asp Val Val Glu
 115 120 125
 Gly Leu Glu Gly Cys His Ser Ala Asn Ile Ser Pro Asp Asn Arg Thr
 130 135 140
 Leu Trp Val Pro Ala Leu Lys Gln Asp Arg Ile Cys Leu Phe Thr Leu
 145 150 155 160
 Ser Asp Asp Gly His Leu Val Ala Gln Ser Pro Ala Glu Val Thr Thr
 165 170 175
 Val Glu Gly Ala Gly Pro Arg His Met Val Phe His Pro Asn Gln Gln
 180 185 190
 Tyr Ala Tyr Val Val Asn Glu Leu Asn Ser Ser Val Asp Val Trp Glu
 195 200 205
 Leu Asn Asp Pro Asn Gly Gln Ile Glu Cys Val Gln Thr Leu Asp Met
 210 215 220
 Met Pro Ser Asp Phe Ser Asp Thr Arg Trp Ala Ala Asp Ile His Ile
 225 230 235 240
 Thr Pro Asp Gly Arg His Leu Tyr Ala Cys Asp Arg Thr Ser Ser Leu
 245 250 255
 Ile Thr Val Phe Ser Val Ser Glu Asp Gly Ser Val Leu Ala Val Glu
 260 265 270
 Gly Phe Gln Pro Thr Glu Thr Gln Pro Arg Gly Phe Asn Val Asp His
 275 280 285
 Ser Gly Lys Tyr Leu Ile Ala Ala Gly Gln Lys Ser His His Ile Ala
 290 295 300
 Leu Tyr Glu Ile Gln Gly Val Gln Gly Leu Leu Glu Glu Lys Gly Arg
 305 310 315 320
 Tyr Ala Val Gly Gln Gly Pro Met Trp Val Val Ile Asn Ala His
 325 330 335

<210> 7741
 <211> 419
 <212> PRT
 <213> Enterobacter cloacae

<400> 7741
 Met Ser Ile Gln Pro Met Thr Ser Gly Arg His Met Gln Gln Leu Asn
 1 5 10 15

Pro Asp Asp Val Ile Trp Arg Asn Ala Arg Leu Ala Thr Leu Ala Thr
 20 25 30
 Gly Glu Ala Glu Pro Tyr Gly Leu Arg Glu Gln His Ala Leu Val Val
 35 40 45
 Arg Gly Gln Thr Ile Leu Ala Ile Ile Pro Glu Ser Glu Ile Pro Ser
 50 55 60
 Gly His Cys Gln Cys Val Asp Leu Asp Gly Arg Leu Val Thr Pro Gly
 65 70 75 80
 Leu Ile Asp Cys His Thr His Leu Val Phe Gly Gly Asp Arg Ala Ala
 85 90 95
 Glu Trp Glu Gln Arg Leu Asn Gly Val Ser Tyr Gln Thr Ile Ser Ala
 100 105 110
 Gln Gly Gly Gly Ile Asn Ala Thr Val Thr Ala Thr Arg Asn Ser Ser
 115 120 125
 Pro Glu Thr Leu Leu Thr Val Ala Gln Gln Arg Leu Gln Arg Leu Met
 130 135 140
 Asn Glu Gly Val Thr Thr Val Glu Ile Lys Ser Gly Tyr Gly Leu Asn
 145 150 155 160
 Ala Glu Ala Glu Glu Lys Met Leu Leu Val Ala Arg Gln Leu Ser Leu
 165 170 175
 Asn Asn Leu Val Asp Ile Ser Pro Thr Leu Leu Ala Ala His Ala Val
 180 185 190
 Pro Ala Glu Tyr Arg Gln Asp Pro Asp Ala Tyr Leu Ala Leu Val Cys
 195 200 205
 Glu Gln Ile Met Pro Thr Leu Trp Gln Lys Glu Leu Phe Glu Ala Val
 210 215 220
 Asp Val Phe Cys Glu Asn Val Gly Phe Thr Pro Ala Gln Thr Glu Arg
 225 230 235 240
 Leu Phe Arg Ala Ala Ala Leu Gly Ile Pro Val Lys Gly His Val
 245 250 255
 Glu Gln Leu Ser Asn Leu Gly Gly Ala Ala Leu Val Ser Gln Tyr Lys
 260 265 270
 Gly Leu Ser Ala Asp His Ile Glu Tyr Leu Asp Asp Ala Gly Ile Gln
 275 280 285
 Ala Met Ala Gln Ser Gly Thr Val Ala Val Leu Leu Pro Gly Ala Phe
 290 295 300
 Tyr Phe Leu Gln Glu Arg Gln Arg Pro Pro Val Ala Gln Leu Arg Glu
 305 310 315 320
 Gln Gly Val Pro Met Ala Val Ala Thr Asp Tyr Asn Pro Gly Thr Ser
 325 330 335
 Pro Phe Ala Ser Leu His Leu Ala Met Asn Met Ala Cys Val Gln Phe
 340 345 350
 Gly Leu Thr Pro Glu Glu Ala Trp Ala Gly Val Thr Arg His Ala Ala
 355 360 365
 Gln Ala Leu Gly Arg Ala Ala Thr His Gly Gln Leu Lys Pro Gly Tyr
 370 375 380
 Val Ala Asp Phe Val Val Trp Glu Ala Asn His Pro Val Glu Met Val
 385 390 395 400
 Tyr Glu Pro Gly Arg Asn Pro Leu Tyr Gln Arg Val Phe Arg Gly Gln
 405 410 415
 Val Ala

<210> 7742

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7742

Leu Ser Val Ser Ala Glu Ala Val Asn Tyr Arg Arg Arg Ile Trp Trp
 1 5 10 15

Asn Leu Ile Arg Thr Thr Ile Gly Thr Val Arg Gly Arg Ser Leu Pro
 20 25 30
 Pro Asp Trp Pro Gly Lys Leu Leu Thr Gly Gly His Asn His Ile Gln
 35 40 45
 Gly Val Met Met Phe Ser Arg Ser Pro Leu Pro Gln Pro Ser Pro Pro
 50 55 60
 Ala Pro Phe Tyr Glu Lys Val Lys Gln Ala Ile Ser Glu Lys Ile Ala
 65 70 75 80
 Ala Gly Val Trp Arg Pro His Asp Arg Ile Pro Ser Glu Ala Glu Leu
 85 90 95
 Val Ala Gln Phe Gly Phe Ser Arg Met Thr Ile Asn Arg Ala Leu Arg
 100 105 110
 Glu Leu Thr Asp Glu Gly Leu Leu Val Arg Leu Gln Gly Val Gly Thr
 115 120 125
 Phe Val Ala Glu Pro Lys Gly Gln Ser Ala Leu Phe Glu Ile Arg Ser
 130 135 140
 Ile Ala Asp Glu Ile Ala Ala Arg Asn His Gln His His Cys Glu Val
 145 150 155 160
 Leu Val Leu Glu Glu Thr Gln Ala Ser Ala Glu Gln Ala Ile Glu Leu
 165 170 175
 Asn Val Thr Glu Gly Thr Arg Ile Phe His Ser Val Met Val His Tyr
 180 185 190
 Glu Asn Asp Ile Pro Val Gln Ile Glu Asp Arg Cys Val Asn Ala Glu
 195 200 205
 Arg Ile Pro Asp Tyr Leu Asn Gln Asp Tyr Thr Gln Thr Thr Pro His
 210 215 220
 Ala Tyr Leu Ser Leu Val Ala Pro Leu Thr Glu Gly Glu His Ile Val
 225 230 235 240
 Glu Ala Val Arg Ala Thr Pro Gln Glu Cys Glu Leu Leu Arg Ile Lys
 245 250 255
 Glu His Asp Pro Cys Leu Leu Ile Arg Arg Arg Thr Trp Ser Ser Ser
 260 265 270
 Gln Ile Val Ser His Ala Lys Leu Leu Phe Pro Gly Asn Arg Tyr Arg
 275 280 285
 Leu Gln Gly His Phe Met Ser
 290 295

<210> 7743

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7743

Leu Cys Gln Arg Ala Gly Pro Glu Pro Ala Asp Asp Pro Arg His Thr
 1 5 10 15
 Arg Lys Ala Cys Met Asn Ala Leu Thr Leu Thr Pro Gly Ser Leu Thr
 20 25 30
 Leu Lys Gln Leu Arg His Val Trp Arg Gln Pro Val Thr Leu Ser Leu
 35 40 45
 Asp Glu Ser Ala His Arg Ala Ile Asn Asp Ser Val Ala Cys Val Glu
 50 55 60
 Ala Ile Val Ala Glu Gly Arg Thr Ala Tyr Gly Ile Asn Thr Gly Phe
 65 70 75 80
 Gly Leu Leu Ala Gln Thr Arg Ile Ala Thr His Asp Leu Glu Asn Leu
 85 90 95
 Gln Arg Ser Leu Val Leu Ser His Ala Ala Gly Val Gly Gln Pro Leu
 100 105 110
 Asp Asp Glu Ile Val Arg Leu Met Met Val Leu Lys Ile Asn Ser Leu
 115 120 125
 Ala Arg Gly Phe Ser Gly Ile Arg Leu Ser Val Ile Gln Ala Leu Met
 130 135 140

Ala Leu Val Asn Ala Glu Val Tyr Pro Trp Ile Pro Ala Lys Gly Ser
 145 150 155 160
 Val Gly Ala Ser Gly Asp Leu Ala Pro Leu Ala His Met Ser Leu Leu
 165 170 175
 Leu Leu Gly Glu Gly Gln Ala Arg Trp Gln Gly Glu Trp Leu Pro Ala
 180 185 190
 Lys Glu Ala Leu Lys Lys Ala Gly Leu Thr Pro Ile Thr Leu Ala Ala
 195 200 205
 Lys Glu Gly Leu Ala Leu Leu Asn Gly Thr Gln Ala Ser Thr Ala Phe
 210 215 220
 Ala Leu Arg Gly Leu Phe Glu Ala Glu Asp Leu Phe Ala Ser Ala Val
 225 230 235 240
 Val Cys Gly Ala Leu Thr Thr Glu Ala Val Leu Gly Ser Arg Arg Pro
 245 250 255
 Phe Asp Ala Arg Ile His Glu Val Arg Gly Gln Arg Gly Gln Ile Asp
 260 265 270
 Ala Ala Ala Met Tyr Arg His Val Leu Thr Asp Thr Ser Asp Ile Ala
 275 280 285
 Glu Ser His His Asn Cys Glu Lys Val Gln Asp Pro Tyr Ser Leu Arg
 290 295 300
 Cys Gln Pro Gln Val Met Gly Ala Cys Leu Thr Gln Leu Arg Gln Ala
 305 310 315 320
 Ala Glu Val Leu Leu Val Glu Ala Asn Ala Val Ser Asp Asn Pro Leu
 325 330 335
 Val Phe Ala Gln Glu Asn Glu Val Val Ser Gly Gly Asn Phe His Ala
 340 345 350
 Glu Pro Val Ala Met Ala Ala Asp Asn Ile Ala Leu Ala Ile Ala Glu
 355 360 365
 Ile Gly Ala Leu Ser Glu Arg Arg Ile Ala Leu Met Met Asp Lys His
 370 375 380
 Met Ser Gln Leu Pro Pro Phe Leu Val Arg Asn Gly Gly Val Asn Ser
 385 390 395 400
 Gly Phe Met Ile Ala Gln Val Thr Ala Ala Ala Leu Ala Ser Glu Asn
 405 410 415
 Lys Ala Leu Ser His Pro His Ser Val Asp Ser Leu Pro Thr Ser Ala
 420 425 430
 Asn Gln Glu Asp His Val Ser Met Ala Pro Ala Ala Gly Arg Arg Leu
 435 440 445
 Trp Glu Met Ala Ser Asn Thr Arg Gly Val Leu Ala Val Glu Trp Leu
 450 455 460
 Ala Ala Cys Gln Gly Ile Asp Leu Arg Glu Gly Leu Thr Ser Ser Pro
 465 470 475 480
 Leu Leu Glu Gln Ala Arg His Thr Leu Arg Glu His Val Thr His Tyr
 485 490 495
 Asp Asp Asp Arg Phe Phe Ala Pro Asp Ile Asp Lys Ala Met Gln Leu
 500 505 510
 Leu Glu Glu Gly Arg Leu Val Gly Leu Leu Pro Ser Val Leu
 515 520 525

<210> 7744

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 7744

Arg Arg His Arg Pro Val Leu Gln Arg Gly Ser His Met Thr Trp Gln
 1 5 10 15
 Ala Arg Ile Arg Thr Ala Leu Asp Glu Arg Arg Ala Ala Asp Ala Phe
 20 25 30
 Arg Val Arg Arg Val Val Glu Asn Gly Ala Gly Arg Phe Leu Thr Arg
 35 40 45

Glu	Gly	Glu	Arg	Phe	Cys	Asn	Phe	Ser	Ser	Asn	Asp	Tyr	Leu	Gly	Leu
	50					55				60					
Ser	Gln	His	Pro	Gln	Ile	Val	Arg	Ala	Trp	Gln	Gln	Gly	Ala	Asp	Arg
65				70					75						80
Tyr	Gly	Val	Gly	Ser	Gly	Gly	Ser	Gly	His	Val	Ser	Gly	Tyr	Thr	Thr
				85				90						95	
Ala	His	Gln	Ala	Leu	Glu	Glu	Glu	Leu	Ala	Asp	Trp	Leu	Gly	Tyr	Pro
			100					105					110		
Arg	Ala	Leu	Leu	Phe	Ile	Ser	Gly	Phe	Ala	Ala	Asn	Gln	Ala	Val	Ile
		115					120					125			
Ala	Ala	Leu	Met	Gly	Lys	Asp	Asp	Arg	Ile	Val	Ala	Asp	Arg	Leu	Ser
	130					135					140				
His	Ala	Ser	Leu	Leu	Glu	Ala	Ala	Ser	Leu	Ser	Pro	Ala	Gln	Leu	Arg
145					150					155					160
Arg	Phe	Ala	His	Asn	Asn	Ala	Ser	Gln	Leu	Asn	Val	Leu	Leu	Gly	Lys
				165					170					175	
Pro	Cys	Ser	Gly	Leu	Gln	Leu	Ala	Val	Thr	Glu	Gly	Val	Phe	Ser	Met
			180					185					190		
Asp	Gly	Asp	Ser	Ala	Pro	Leu	Ala	Thr	Leu	His	Asp	Val	Ala	Lys	Gln
		195					200					205			
Gln	Asn	Ala	Trp	Leu	Leu	Val	Asp	Asp	Ala	His	Gly	Ile	Gly	Val	Thr
	210					215					220				
Gly	Glu	Glu	Gly	Arg	Gly	Ser	Ala	His	Gln	Gln	Arg	Val	Arg	Pro	Glu
225					230					235					240
Leu	Leu	Val	Val	Thr	Phe	Gly	Lys	Gly	Phe	Gly	Val	Ser	Gly	Ala	Ala
				245					250					255	
Val	Leu	Cys	Ser	Glu	Pro	Val	Ala	Asp	Tyr	Leu	Val	Gln	Phe	Ala	Arg
			260					265					270		
His	Leu	Ile	Tyr	Ser	Thr	Ser	Met	Pro	Pro	Ala	Gln	Ala	Val	Ala	Leu
		275					280					285			
Ser	Ala	Ser	Leu	Ala	Val	Ile	Arg	Gly	Glu	Asp	Gly	Ala	Glu	Arg	Arg
	290					295					300				
Ala	Arg	Leu	Ala	Asp	His	Ile	Gln	Arg	Phe	Arg	Arg	Gly	Ile	Ser	Glu
305					310					315					320
Leu	Ser	Tyr	Arg	Leu	Thr	Asp	Ser	His	Ser	Ala	Ile	Gln	Pro	Val	Ile
				325					330					335	
Val	Gly	Glu	Asn	His	Arg	Ala	Leu	Met	Val	Ala	Gln	Ala	Leu	Arg	Glu
			340					345					350		
Arg	Gly	Gln	Trp	Val	Thr	Ala	Ile	Arg	Pro	Pro	Thr	Val	Pro	Pro	Gly
		355					360					365			
Thr	Ala	Arg	Leu	Arg	Leu	Thr	Leu	Thr	Ala	Ala	His	Glu	Pro	Gln	Asp
	370					375					380				
Ile	Asp	Thr	Leu	Leu	Glu	Ala	Leu	Tyr	Val	Ser	Arg	Gln			
385					390					395					

<210> 7745

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7745

Thr	Asp	Gly	Glu	Ile	Val	Met	Leu	Glu	Leu	Asn	Phe	Thr	Gln	Thr	Leu
1				5					10					15	
Gly	Ser	His	Thr	Leu	Thr	Leu	Asn	Glu	Thr	Leu	Pro	Ala	Ser	Gly	Ile
			20					25					30		
Thr	Ala	Ile	Phe	Gly	Val	Ser	Gly	Ala	Gly	Lys	Thr	Ser	Leu	Ile	Asn
		35					40					45			
Ala	Ile	Ser	Gly	Leu	Thr	Arg	Pro	Gln	Ser	Gly	Arg	Ile	Val	Leu	Asn
	50					55					60				
Asn	Arg	Val	Leu	Asn	Asp	Ala	Glu	Lys	Lys	Val	Cys	Leu	Ser	Pro	Asp
65					70					75					80

Lys Arg Arg Ile Gly Tyr Val Phe Gln Asp Ala Arg Leu Phe Pro His
 85 90 95
 Tyr Ser Val Arg Gly Asn Leu Arg Tyr Gly Met Ala Lys Ser Met Ala
 100 105 110
 Gly Gln Phe Asn Lys Leu Val Ala Leu Leu Gly Ile Glu Pro Leu Leu
 115 120 125
 Asp Arg Leu Pro Ser Ser Leu Ser Gly Gly Glu Lys Gln Arg Val Ala
 130 135 140
 Ile Gly Arg Ala Leu Leu Thr Ala Pro Glu Leu Leu Leu Asp Glu
 145 150 155 160
 Pro Leu Ala Ser Leu Asp Ile Pro Arg Lys Arg Glu Leu Leu Pro Tyr
 165 170 175
 Leu Gln Arg Leu Ala Arg Glu Ile Asn Val Pro Met Leu Tyr Val Ser
 180 185 190
 His Ser Leu Asp Glu Ile Leu His Met Ala Asp Lys Val Leu Val Leu
 195 200 205
 Glu Ala Gly Arg Val Lys Ala Phe Gly Asn Leu Glu Glu Val Trp Gly
 210 215 220
 Ser Ser Val Met His Pro Trp Leu Pro Lys Glu Gln Gln Ser Ser Ile
 225 230 235 240
 Leu Lys Val Ser Val Leu Glu His His Pro His Tyr Ala Met Thr Ala
 245 250 255
 Leu Ala Leu Gly Asp Gln His Leu Trp Val Asn Lys Ile Asp Thr Pro
 260 265 270
 Ile Gln Ser Thr Leu Arg Ile Arg Ile Gln Ala Ser Asp Val Ser Leu
 275 280 285
 Val Leu Gln Pro Pro Leu Gln Thr Ser Ile Arg Asn Ile Leu Arg Ala
 290 295 300
 Lys Val Ala Gln Cys Phe Asp Asp Asn Gly Gln Val Glu Val Gln Leu
 305 310 315 320
 Glu Val Gly Ser Arg Thr Leu Trp Ala Arg Ile Ser Pro Trp Ala Arg
 325 330 335
 Asp Glu Leu Gly Ile Lys Pro Gly Leu Trp Leu Tyr Ala Gln Ile Lys
 340 345 350
 Ser Val Ser Ile Thr Ala
 355

<210> 7746

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7746

Ser Ala Leu Arg Phe Asn Glu Leu Gly Gln Thr Pro Ser Phe Ala Val
 1 5 10 15
 Ala Phe Ala Gly Asp Ile His Leu Ile Val Pro Gly Pro Phe Thr Phe
 20 25 30
 Gln Thr Gln Arg Met Leu Asp Lys Phe Cys Glu Gly Ile Gln Phe Gly
 35 40 45
 Gly Val Phe Ile Gly Gln Gly Lys Phe Pro Asp Cys Phe Asp Val Phe
 50 55 60
 Arg Arg Leu Ala Gln Gly Gly Asn Leu Ser Lys His Arg Thr Leu Arg
 65 70 75 80
 Phe Arg Gln Arg Gln Ser Pro Val Ala Gly Ala Asp His Met Ala Gly
 85 90 95
 Arg Ala Phe Ile His His Gly Val Ile His Ile His Gln Ala Val Asn
 100 105 110
 Gly Val Leu Ile Gln
 115

<210> 7747

<211> 587

<212> PRT

<213> Enterobacter cloacae

<400> 7747

Ile	Arg	Pro	Cys	Val	Cys	Leu	Ser	Ile	Gln	Val	Tyr	Leu	Asn	Ala	Ser
1				5					10					15	
Ser	Val	Pro	Tyr	Glu	Glu	His	Thr	Met	Ser	Ser	Asp	Lys	Tyr	Arg	Lys
			20					25					30		
Gln	Asp	Val	Arg	Ala	Ala	Arg	Gly	Thr	Thr	Leu	Thr	Ala	Lys	Ser	Trp
		35					40					45			
Leu	Thr	Glu	Ala	Pro	Leu	Arg	Met	Leu	Met	Asn	Asn	Leu	Asp	Pro	Glu
	50					55				60					
Val	Ala	Glu	Asn	Pro	His	Glu	Leu	Val	Val	Tyr	Gly	Gly	Ile	Gly	Arg
65					70					75					80
Ala	Ala	Arg	Asn	Trp	Ala	Cys	Tyr	Asp	Ala	Ile	Val	Glu	Ser	Leu	Thr
			85						90					95	
Asn	Leu	Glu	Asn	Asp	Glu	Thr	Leu	Leu	Val	Gln	Ser	Gly	Lys	Pro	Val
			100					105					110		
Gly	Val	Phe	Lys	Thr	His	Lys	Asn	Ala	Pro	Arg	Val	Leu	Ile	Ala	Asn
		115					120					125			
Ser	Asn	Leu	Val	Pro	His	Trp	Ala	Thr	Trp	Glu	His	Phe	Asn	Glu	Leu
		130				135					140				
Asp	Ala	Lys	Gly	Leu	Ala	Met	Tyr	Gly	Gln	Met	Thr	Ala	Gly	Ser	Trp
145					150					155					160
Ile	Tyr	Ile	Gly	Ser	Gln	Gly	Ile	Val	Gln	Gly	Thr	Tyr	Glu	Thr	Phe
			165						170						175
Val	Glu	Ala	Gly	Arg	Gln	His	Tyr	Asn	Gly	Ser	Leu	Lys	Gly	Arg	Trp
			180					185					190		
Val	Leu	Thr	Ala	Gly	Leu	Gly	Gly	Met	Gly	Gly	Ala	Gln	Pro	Leu	Ala
		195					200					205			
Ala	Thr	Leu	Ala	Gly	Ala	Cys	Ser	Leu	Asn	Ile	Glu	Cys	Gln	Gln	Ser
		210				215					220				
Arg	Ile	Asp	Phe	Arg	Leu	Arg	Thr	Arg	Tyr	Val	Asp	Glu	Gln	Ala	Asp
225					230					235					240
Asn	Leu	Asp	Asp	Ala	Leu	Ala	Arg	Ile	Lys	Lys	Tyr	Thr	Ser	Glu	Gly
			245						250					255	
Lys	Ala	Val	Ser	Val	Ala	Leu	Cys	Gly	Asn	Ala	Ala	Asp	Ile	Leu	Pro
		260						265					270		
Glu	Leu	Val	Ala	Arg	Gly	Val	Arg	Pro	Asp	Leu	Val	Thr	Asp	Gln	Thr
		275					280					285			
Ser	Ala	His	Asp	Pro	Leu	His	Gly	Tyr	Leu	Pro	Lys	Gly	Trp	Thr	Trp
		290				295					300				
Glu	Asp	Tyr	Gln	Gln	Lys	Ala	Glu	Thr	Asp	Pro	Glu	Gly	Thr	Val	Leu
305					310					315					320
Ala	Ala	Lys	Arg	Ala	Met	Ala	Glu	His	Val	Ser	Ala	Met	Leu	Ala	Phe
			325						330					335	
Ser	Lys	Met	Gly	Ile	Pro	Thr	Phe	Asp	Tyr	Gly	Asn	Asn	Ile	Arg	Gln
			340					345					350		
Met	Ala	Lys	Glu	Met	Gly	Val	Asn	Asn	Ala	Phe	Asp	Phe	Pro	Gly	Phe
		355					360					365			
Val	Pro	Ala	Tyr	Ile	Arg	Pro	Leu	Phe	Cys	Arg	Gly	Ile	Gly	Pro	Phe
		370				375					380				
Arg	Trp	Val	Ala	Leu	Ser	Gly	Asp	Pro	Glu	Asp	Ile	Tyr	Lys	Thr	Asp
385					390					395					400
Ala	Arg	Val	Lys	Glu	Ile	Val	Ala	Asp	Asp	Glu	His	Leu	His	Arg	Trp
			405						410					415	
Leu	Asp	Met	Ala	Arg	Glu	Arg	Ile	Asn	Phe	Gln	Gly	Leu	Pro	Ala	Arg
			420					425					430		
Ile	Cys	Trp	Val	Gly	Leu	Glu	Trp	Arg	Gln	Lys	Leu	Gly	Leu	Ala	Phe
		435					440					445			

Asn Glu Met Val Arg Ser Gly Glu Val Ser Ala Pro Ile Val Ile Gly
 450 455 460
 Arg Asp His Leu Asp Ser Gly Ser Val Ala Ser Pro Asn Arg Glu Thr
 465 470 475 480
 Glu Ala Met Arg Asp Gly Ser Asp Ala Val Ser Asp Trp Pro Leu Leu
 485 490 495
 Asn Ala Leu Leu Asn Thr Ala Ser Gly Ala Thr Trp Val Ser Leu His
 500 505 510
 His Gly Gly Gly Val Gly Met Gly Phe Ser Gln His Ser Gly Met Val
 515 520 525
 Ile Val Cys Asp Gly Thr Asp Glu Ala Ala Ala Arg Ile Ala Arg Val
 530 535 540
 Leu His Asn Asp Pro Ala Thr Gly Val Met Arg His Ala Asp Ala Gly
 545 550 555 560
 Tyr Glu Ile Ala Ile Asp Cys Ala Lys Glu Gln Gly Leu Asn Leu Pro
 565 570 575
 Met Ile Pro Ala Thr Gln Gly Lys Pro Ala
 580 585

<210> 7748

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 7748

Thr Glu Pro Thr Ile Asn Lys Thr Leu Trp Arg Ser Pro Met Ala His
 1 5 10 15
 His Ala Arg Trp Thr Met Ser Gln Val Thr Glu Leu Phe Asn Lys Pro
 20 25 30
 Phe Leu Glu Leu Met Phe Glu Ala Gln Gln Val His Arg Gln His Phe
 35 40 45
 Asp Pro Arg His Val Gln Val Ser Thr Leu Leu Ser Ile Lys Thr Gly
 50 55 60
 Ala Cys Pro Glu Asp Cys Lys Tyr Cys Pro Gln Ser Ala Arg Tyr Lys
 65 70 75 80
 Thr Gly Leu Glu Ser Glu Arg Leu Met Glu Val Glu Gln Val Leu Asp
 85 90 95
 Ser Ala Arg Lys Ala Lys Asn Ala Gly Ser Thr Arg Phe Cys Met Gly
 100 105 110
 Ala Ala Trp Lys Asn Pro His Asp Arg Asp Met Pro Tyr Leu Glu Gln
 115 120 125
 Met Val Lys Gly Val Lys Glu Met Gly Leu Glu Ala Cys Met Thr Leu
 130 135 140
 Gly Thr Leu Asn Glu Glu Gln Ala Gln Arg Leu Ser Ala Ala Gly Leu
 145 150 155 160
 Asp Tyr Tyr Asn His Asn Leu Asp Thr Ser Pro Glu Phe Tyr Gly Asn
 165 170 175
 Ile Ile Thr Thr Arg Thr Tyr Gln Glu Arg Leu Asp Thr Leu Asp Lys
 180 185 190
 Val Arg Asp Ala Gly Ile Lys Val Cys Ser Gly Gly Ile Val Gly Leu
 195 200 205
 Gly Glu Thr Val Lys Asp Arg Ala Gly Leu Leu Leu Gln Leu Ala Asn
 210 215 220
 Leu Pro Thr Pro Pro Glu Ser Val Pro Ile Asn Met Leu Val Lys Val
 225 230 235 240
 Lys Gly Thr Pro Leu Ala Asp Asn Glu Asp Val Asp Ala Phe Asp Phe
 245 250 255
 Ile Arg Thr Ile Ala Val Ala Arg Ile Met Met Pro Thr Ser Tyr Val
 260 265 270
 Arg Leu Ser Ala Gly Arg Glu Gln Met Ser Glu Gln Thr Gln Ala Met
 275 280 285

Cys Phe Met Ala Gly Ala Asn Ser Ile Phe Tyr Gly Cys Lys Leu Leu
 290 295 300
 Thr Thr Pro Asn Pro Glu Asp Lys Asp Val Gln Leu Phe Arg Lys
 305 310 315 320
 Leu Gly Leu Asn Pro His Gln Thr Gly Val Gln Val Gly Asp Asn Glu
 325 330 335
 Gln Gln Gln Gln Leu Glu Gln Gln Ile Phe Asn Ala Asp Thr Asp Gln
 340 345 350
 Phe Tyr Asn Ala Ala Ala Ile
 355 360

<210> 7749

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7749

Arg Ser Arg Gln Arg Met Ser Arg Arg Ile Ser Ile Arg Phe Trp Arg
 1 5 10 15
 His Cys Met Ser Leu Val Asn Lys Gln Ala Val Ala Ala Phe Gly
 20 25 30
 Arg Ala Ala Gln Ser Tyr Ser Gln His Asp Glu Leu Gln Arg Leu Ser
 35 40 45
 Ala Arg Gly Leu Leu Ala Ala Leu Gly Asp Gly Arg Phe Ala Gln Val
 50 55 60
 Leu Asp Ala Gly Cys Gly Pro Gly Gly Asn Ser Arg Tyr Trp Arg Ala
 65 70 75 80
 Thr Gly Ser His Val Thr Ala Leu Asp Leu Ser Ala Gln Met Leu Asp
 85 90 95
 Glu Ala Arg Gln Gln Ser Ala Asp Arg Tyr Leu Val Ala Asp Ile
 100 105 110
 Glu Ala Ile Pro Leu Glu Asp Ala Leu Phe Asp Leu Val Trp Ser His
 115 120 125
 Leu Ala Val Gln Trp Cys Ala Ser Leu Pro Gln Ala Leu Arg Glu Leu
 130 135 140
 Tyr Arg Val Ala Arg Pro Gly Gly Ala Val Ala Phe Thr Thr Leu Leu
 145 150 155 160
 Glu Ser Ser Leu Pro Glu Leu Asn Gln Ala Trp Arg Ala Val Asp Ala
 165 170 175
 Gln Pro His Ala Asn Arg Phe Leu Ser His Glu Gln Val Thr Gln Ala
 180 185 190
 Leu Ala Gly Trp Arg Tyr Arg Ser Val Val Gln Thr Val Thr Leu Glu
 195 200 205
 Phe Ser Asp Ala Leu Ser Ala Met Arg Ser Leu Lys Gly Ile Gly Ala
 210 215 220
 Thr His Leu His Ala Gly Arg Glu Lys Lys Pro Leu Thr Arg Gly Gln
 225 230 235 240
 Leu Gln Arg Leu Glu Leu Ala Trp Pro Gln Glu Arg Gly Arg Phe Pro
 245 250 255
 Leu Ser Tyr His Leu Phe His Gly Ile Ile Glu Arg Asp
 260 265 270

<210> 7750

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 7750

Thr Leu Arg Ile Tyr Asp Ser Arg Met Ile Leu Thr Glu Pro Glu Trp
 1 5 10 15
 Gln Ala Val Leu Leu Ser Leu Lys Val Ser Ser Leu Ala Val Ala Leu

Ala Leu Leu Gly Phe Glu Cys Asp Glu Gly Val Lys Arg Asn Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ala Gln Ala Pro Asp Val Leu Arg Gly Ala Leu Ala
 85 90 95
 Asn Met Ala Ser His Gln Gly His Ala Arg Leu Val Asp Met Gly Ser
 100 105 110
 Val Tyr Val Glu Gly His Ala Leu Glu Ala Ala Gln Gln Ala Leu Ser
 115 120 125
 Glu Ala Ile Thr Ala Cys Gln Gln Ser Gly Met Arg Thr Leu Val Phe
 130 135 140
 Gly Gly Gly His Glu Thr Ala Trp Ala His Gly Arg Gly Val Leu Asp
 145 150 155 160
 Ala Phe Pro Asn Asp Arg Ile Ala Val Ile Asn Leu Asp Ala His Leu
 165 170 175
 Asp Leu Arg Lys Ala Glu Arg Ala Thr Ser Gly Thr Pro Phe Arg Gln
 180 185 190
 Leu Ala His Tyr Cys Ala Ser Gln Ser Arg Val Phe His Tyr Ala Cys
 195 200 205
 Leu Gly Val Ser Arg Ala Ala Asn Thr Gln Ala Leu Trp Glu Glu Ala
 210 215 220
 Glu Arg Leu Asn Val Thr Leu Val Glu Asp Leu Asp Phe Arg Arg Asp
 225 230 235 240
 Ala Leu Ser Ala Leu Asp Ser Val Leu Thr Gln Ala Asp Arg Val Tyr
 245 250 255
 Leu Thr Val Asp Leu Asp Val Leu Pro Ala Ala Glu Met Pro Ala Val
 260 265 270
 Ser Ala Pro Ala Ala Leu Gly Ile Pro Ala Leu Asp Leu Phe Pro Val
 275 280 285
 Ile Glu Arg Ile Cys Arg Ser Gly Lys Leu Gln Ala Ala Asp Leu Val
 290 295 300
 Glu Phe Asn Pro His Tyr Asp Arg Asp Gly Gln Gly Ala Lys Leu Ala
 305 310 315 320
 Ala Arg Leu Ala Trp Gln Ile Ala His Trp Trp Ala
 325 330

<210> 7753

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7753

Ala Arg Arg Thr Cys Thr Pro Asp Gly Arg Arg Asn Pro Leu Pro Ala
 1 5 10 15
 Val Asn Ser Ser Val Ser Ser Trp Pro Gly Arg Arg Ser Gly Ala Gly
 20 25 30
 Ser Arg Ser Leu Ile Ile Phe Phe Met Gly Leu Leu Asn Val Thr Glu
 35 40 45
 Arg Tyr Phe Val Thr Gly Thr Asp Thr Glu Val Gly Lys Thr Val Ala
 50 55 60
 Ser Ala Ala Leu Leu Gln Ala Ala Arg Leu Leu Gly Lys Thr Thr Ala
 65 70 75 80
 Gly Tyr Lys Pro Val Ala Ser Gly Ser Glu Met Thr Pro Glu Gly Leu
 85 90 95
 Arg Asn Thr Asp Ala Leu Ala Leu Gln Arg Asn Ser Ser Leu Ala Leu
 100 105 110
 Ala Tyr Ser Ala Val Asn Pro Tyr Thr Phe Ala Glu Pro Thr Ser Pro
 115 120 125
 His Ile Val Ser Ala Asp Glu Asp Arg Pro Ile Asp Phe Ser Val Leu
 130 135 140
 Ser Ser Gly Leu Arg Asp Leu Glu Thr Gln Ala Asp Trp Val Leu Val
 145 150 155 160

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<210> 7754
<211> 117
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (43)

[illegible]

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<210> 7755
<211> 276
<212> PRT
<213> Enterobacter cloacae
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<400> 7755
Val Ile Pro Lys Asn Gly Leu Phe Leu Ile Ile Met Lys Phe Leu Ala
1 5 10 15
Gly Val Leu Gln Thr Ser Leu Cys Ala Ser Pro Pro His Ile Phe Lys

```
<210> 7756
<211> 166
<212> PRT
<213> Enterobacter cloacae
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[illegible]

165

<210> 7757

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7757

Ser	Glu	Glu	Leu	His	Pro	Cys	Ala	Leu	Phe	Leu	Gly	Asp	Gly	Ser	Gln
1				5					10					15	
Cys	Ser	Thr	Val	Asp	Ala	Phe	Phe	Ile	Asn	Leu	Pro	Lys	Gln	Pro	Asp
			20					25					30		
Phe	Val	Val	Gly	Pro	Ala	Gly	Ala	Gln	Gly	Val	Thr	His	Thr	Ser	Ile
		35					40					45			
Gln	Ala	Ala	Val	Asp	Ala	Ala	Ile	Thr	Lys	His	Ser	Ala	Ser	Arg	Gln
	50					55					60				
Tyr	Ile	Ala	Ile	Leu	Pro	Gly	Glu	Tyr	Glu	Gly	Thr	Val	Tyr	Val	Pro
65					70				75						80
Ala	Ala	Pro	Gly	Ser	Ile	Thr	Leu	Tyr	Gly	Leu	Gly	Glu	Lys	Ala	Val
				85					90					95	
Asp	Val	Lys	Ile	Gly	Leu	Ala	Ile	Asp	Ser	Glu	Ile	Asp	Ser	Thr	Thr
			100					105					110		
Trp	Arg	His	Leu	Val	Asn	Pro	Ala	Gly	Lys	Tyr	Met	Pro	Gly	Lys	Pro
		115					120					125			
Ala	Trp	Tyr	Met	Phe	Asp	Asn	Cys	Gln	Arg	Lys	Arg	Ala	Ala	Thr	Ile
	130					135					140				
Gly	Val	Met	Cys	Ser	Ala	Val	Phe	Trp	Ser	Gln	Asn	Asn	Gly	Leu	Gln
145					150					155					160
Leu	Gln	Asn	Leu	Thr	Ile	Gln	Asn	Thr	Leu	Gly	Asp	Ser	Val	Asp	Ala
				165					170					175	
Gly	Asn	His	Gln	Ala	Val	Ala	Leu	Arg	Ser	Asp	Gly	Asp	Lys	Val	Gln
			180					185					190		
Ile	Asn	Asn	Val	Asn	Ile	Leu	Gly	Arg	Gln	Asn	Thr	Phe	Phe	Val	Thr
			195				200					205			
Asn	Ser	Gly	Val	Gln	Asn	Thr	Leu	Gln	Asn	Asn	Arg	Leu	Thr	Arg	Thr
	210					215					220				
Leu	Val	Thr	Asn	Ser	Tyr	Ile	Glu	Gly	Asp	Val	Asp	Met	Val	Ser	Gly
225					230					235					240
Arg	Gly	Ala	Val	Val	Phe	Asp	Asn	Thr	Asp	Phe	Arg	Val	Val	Asn	Ser
				245					250					255	
Arg	Thr	Gln	Gln	Glu	Gly	Tyr	Val	Phe	Ala	Pro	Ala	Thr	Gln	Ser	Asn
		260						265					270		
Leu	Phe	Tyr	Gly	Phe	Leu	Ala	Val	Asn	Ser	Arg	Phe	Thr	Ala	Ala	Gly
	275						280					285			
Asp	Gly	Val	Ala	Gln	Leu	Gly	Arg	Ser	Leu	Asp	Val	Asp	Ser	Ala	Thr
	290					295					300				
Asn	Gly	Gln	Val	Val	Ile	Arg	Asp	Ser	Val	Ile	Asn	Glu	Gly	Phe	Asn
305					310					315					320
Met	Ala	Lys	Pro	Trp	Ala	Asp	Ala	Ala	Ile	Ser	Lys	Arg	Pro	Phe	Ser
				325					330					335	
Gly	Asn	Thr	Gly	Thr	Val	Asp	Asp	Lys	Asp	Asn	Val	Gln	Arg	Asn	Leu
			340					345					350		
Asn	Asp	Ala	Asn	Phe	Asn	Arg	Met	Trp	Glu	Tyr	Asn	Asn	Arg	Gly	Leu
		355					360					365			
Gly	Ser	Lys	Val	Val	Ala	Glu	Pro	Lys	Gln						
	370						375								

<210> 7758

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7758

Leu Ser Val Arg Phe Ile Leu Val Asn Leu Lys Leu Phe Lys Met Val
 1 5 10 15
 Tyr Lys Ser Ile Met Thr Gln Asp Asp Leu Ala Phe Asp Lys Gln His
 20 25 30
 Ile Trp His Pro Tyr Thr Ser Thr Thr Arg Pro Leu Pro Val Tyr Pro
 35 40 45
 Val Ala Ser Ala His Gly Cys Glu Leu His Leu Ala Ser Gly Glu Arg
 50 55 60
 Leu Val Asp Gly Met Ser Ser Trp Trp Ala Ala Ile His Gly Tyr Asn
 65 70 75 80
 His Pro Arg Leu Asn Ala Ala Met Lys Ala Gln Ile Asp Gln Met Ser
 85 90 95
 His Val Met Phe Gly Gly Ile Thr His Gln Pro Ala Val Asp Leu Cys
 100 105 110
 Arg Arg Leu Val Ala Met Thr Pro Glu Ser Leu Glu Cys Val Phe Leu
 115 120 125
 Ala Asp Ser Gly Ser Val Ala Val Glu Val Ala Met Lys Met Ala Leu
 130 135 140
 Gln Tyr Trp His Ala Lys Gly Glu Thr Arg Gln Arg Phe Leu Thr Phe
 145 150 155 160
 Arg Asn Gly Tyr His Gly Asp Thr Phe Gly Ala Met Ser Val Cys Asp
 165 170 175
 Pro Asp Asn Ser Met His Ser Leu Trp Lys Gly Tyr Leu Pro Glu Asn
 180 185 190
 Leu Phe Ala Pro Ala Pro Gln Ser Arg Phe Asp Gly Glu Trp Asp Glu
 195 200 205
 Met Asp Met Val Gly Phe Ala Arg Leu Met Ala Ala His Arg His Glu
 210 215 220
 Ile Ala Ala Val Ile Leu Glu Pro Ile Val Gln Gly Ala Gly Gly Met
 225 230 235 240
 Arg Ile Tyr His Pro Glu Trp Leu Lys Arg Ile Arg Lys Met Cys Asp
 245 250 255
 Arg Glu Gly Ile Leu Leu Ile Ala Asp Glu Ile Ala Thr Gly Phe Gly
 260 265 270
 Arg Thr Gly Lys Leu Phe Ala Cys Glu His Ala Gly Ile Ala Pro Asp
 275 280 285
 Ile Leu Cys Leu Gly Lys Ala Leu Thr Gly Gly Thr Met Thr Leu Ser
 290 295 300
 Ala Thr Leu Thr Thr Arg Gln Val Ala Asp Thr Ile Ser Asp Gly Asp
 305 310 315 320
 Ala Gly Cys Phe Met His Gly Pro Thr Phe Met Gly Asn Pro Leu Ala
 325 330 335
 Cys Ala Val Ala Ser Glu Ser Leu Ala Ile Leu Glu Ser Gly Ala Trp
 340 345 350
 Gln Thr Gln Val Ala Ala Ile Glu Ala Gln Leu Lys Gln Gln Leu Ser
 355 360 365
 Ala Ala Ala Glu Ala Glu Tyr Val Ala Asp Val Arg Val Leu Gly Ala
 370 375 380
 Ile Gly Val Ile Glu Thr Lys His Pro Val Asn Met Ala Ala Leu Gln
 385 390 395 400
 Arg Phe Phe Val Asp Gln Gly Val Trp Val Arg Pro Phe Gly Lys Leu
 405 410 415
 Ile Tyr Leu Met Pro Pro Tyr Ser Ile Ser Ala Asp Gln Leu Arg Lys
 420 425 430
 Leu Thr Gly Ala Val Val Glu Ala Val Asn Thr Ser Ala His Phe Ala
 435 440 445
 Ile
 450

<210> 7759
 <211> 167
 <212> PRT
 <213> Enterobacter cloacae

<400> 7759

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Tyr Lys Lys Ala Gly Tyr Phe Val Tyr Pro Asp Lys Thr Cys Ile Pro
1      5      10      15
Arg Ser Ile Thr Leu Asn Ile Ser Arg Ile Ser Arg Leu Ala Leu Ala
      20      25      30
Leu Ala Phe Gly Val Thr Leu Ser Ala Cys Ser Ser Thr Pro Pro Asp
      35      40      45
Gln Gln Pro Ser Glu Gln Val Ala Pro Gly Thr Ala Ser Arg Pro Ile
      50      55      60
Leu Ser Ala Ala Glu Ala Lys Asn Phe Thr Arg Ala His Tyr Phe Ser
65      70      75      80
Ala Met Asp Pro Asn Ala Ala Pro Trp Thr Leu Phe Leu Leu Thr Cys
      85      90      95
Arg Asn Ser Gln Thr Ser Leu Ser Ala Arg Pro Gly Arg Arg Ala Leu
      100     105     110
His Thr Pro Leu Phe Arg Gln Pro Leu Met Pro Gln Ser Pro Asn Thr
      115     120     125
Ala His Leu Val Ser Thr Leu Pro Ser Cys Arg Val Asn Thr Lys Glu
      130     135     140
Pro Phe Met Phe Arg Arg His Arg Glu Ala Leu His Phe Thr Ala Trp
145      150      155      160
Ala Lys Lys Arg Ser Thr
      165

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<210> 7760
 <211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 7760

```

Ile Val Val Arg Asp Phe Ala Gly Phe Arg Ser Arg Cys Thr Ile Pro
1      5      10      15
Thr Asp Leu Lys Phe Asn Ile Asn Pro Glu Glu Lys Met Thr Ser Arg
      20      25      30
Val Ile Ala Leu Asp Leu Asp Gly Thr Leu Leu Thr Pro Gln Lys Thr
      35      40      45
Leu Leu Pro Ser Ser Leu Glu Ala Leu Lys Arg Ala Gln Glu Ala Gly
      50      55      60
Tyr Gln Leu Leu Ile Val Thr Gly Arg His His Val Ala Ile His Pro
65      70      75      80
Phe Tyr Gln Ala Leu Gly Leu Asp Thr Pro Ala Ile Cys Cys Asn Gly
      85      90      95
Thr Tyr Leu Tyr Asp Tyr Gln Ala Lys Lys Val Leu Ala Ser Asp Pro
      100     105     110
Leu Pro Val Thr Gln Ala Leu Gln Leu Ile Asp Leu Leu Asp Glu His
      115     120     125
Ala Ile His Gly Leu Met Tyr Val Asp Asn Ala Met Val Tyr Glu Arg
      130     135     140
Pro Thr Gly His Val Ile Arg Thr Ser Asn Trp Ala Leu Ser Leu Pro
145      150      155      160
Glu Ala Gln Arg Pro Val Phe Thr Gln Val Ser Ser Leu Arg Gln Ala
      165     170     175
Ala Glu Asp Val Glu Ala Ile Trp Lys Phe Ala Leu Thr Asp Glu Asp
      180     185     190
Thr Ala Lys Leu Asn Thr Phe Ala Lys Leu Val Glu His Thr Leu Gly
      195     200     205

```

Leu Glu Cys Glu Trp Ser Trp His Asp Gln Val Asp Ile Ala Arg Lys
 210 215 220
 Gly Asn Ser Lys Gly Arg Arg Leu Thr Gln Phe Val Glu Ser Gln Gly
 225 230 235 240
 Gly Ser Met Gln Asp Val Ile Ala Phe Gly Asp Asn Tyr Asn Asp Ile
 245 250 255
 Ser Met Leu Glu Ala Ala Gly Thr Gly Val Ala Met Gly Asn Ala Asp
 260 265 270
 Asp Ala Val Lys Ala Arg Ala Asp Val Val Ile Gly Asp Asn Thr Thr
 275 280 285
 Asp Ser Ile Ala Gln Tyr Ile Tyr Thr His Leu Leu
 290 295 300

<210> 7761

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7761

Trp Glu Ala Cys Ser Thr Ala Gly Glu Lys Leu Gly Val Ala Trp Leu
 1 5 10 15
 Ala Ser Pro Ala Leu Ala Gln Glu Ala Pro Ala Ala Gly Pro Ile Glu
 20 25 30
 Ala Gln Thr Pro Pro Val Asp Ala Glu Pro Asn Asp Val Val Val Thr
 35 40 45
 Gly Ser Arg Ile Pro Gln Pro Asn Leu Glu Gly Ala Ser Pro Val Thr
 50 55 60
 Val Val Asn Ser Gln Asp Leu Lys Leu Gln Gly Thr Thr Arg Val Glu
 65 70 75 80
 Asp Leu Leu Asn Ser Leu Pro Gln Val Phe Ala Gly Gln Ala Ser Thr
 85 90 95
 Leu Ser Asn Gly Ala Asp Gly Thr Ala Thr Val Asp Leu Arg Gly Leu
 100 105 110
 Gly Pro Thr Arg Thr Leu Val Leu Val Asn Gly Arg Arg Leu Met Pro
 115 120 125
 Gly Asp Pro Thr Thr Ser Ala Ala Asp Leu Asn Ser Ile Pro Ala Ala
 130 135 140
 Leu Ile Lys Arg Val Glu Val Leu Thr Gly Gly Ala Ser Ser Thr Tyr
 145 150 155 160
 Gly Ala Asp Ala Val Ala Gly Val Val Asp Leu Met Ser Ser Leu Arg
 165 170 175
 Gly Arg Pro Ile Pro Pro Tyr Thr Pro
 180 185

<210> 7762

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 7762

Phe Asp Phe Trp Arg Ile Asp Met Ser Arg Val Cys Gln Val Thr Gly
 1 5 10 15
 Lys Arg Pro Val Thr Gly Asn Asn Arg Ser His Ala Leu Asn Ala Thr
 20 25 30
 Lys Arg Arg Phe Leu Pro Asn Leu His Ser His Arg Phe Trp Val Glu
 35 40 45
 Ser Glu Lys Arg Phe Val Thr Leu Arg Val Ser Ala Lys Gly Met Arg
 50 55 60
 Val Ile Asp Lys Lys Gly Ile Asp Thr Val Leu Ser Glu Leu Arg Ala
 65 70 75 80
 Arg Gly Glu Lys Tyr

85

<210> 7763
 <211> 259
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (259)

<400> 7763

Glu	Ser	Glu	Lys	Met	Phe	Lys	Ile	Thr	Val	Cys	Leu	Leu	Thr	Phe	Asn
1				5					10					15	
Ser	Glu	Arg	Thr	Leu	His	Asp	Val	Ile	Pro	Pro	Leu	Leu	Lys	Ile	Ala
			20					25					30		
Asp	Glu	Phe	Val	Val	Val	Asp	Ser	Gly	Ser	Thr	Asp	Ala	Thr	Ile	Tyr
		35					40					45			
Ile	Cys	Gln	Ser	Tyr	Gly	Leu	Ser	Ala	Ile	Phe	Lys	Lys	Tyr	Ser	Trp
	50					55					60				
His	Gly	Glu	Gln	Met	Asn	His	Ala	Val	Ser	His	Ala	His	Asn	Asp	Trp
65					70					75				80	
Val	Leu	Cys	Met	Asp	Ser	Asp	Glu	Ile	Leu	Asp	Gln	Glu	Thr	Val	Asp
			85						90					95	
Ala	Ile	Leu	Lys	Leu	Lys	Met	Gly	Asp	Glu	Pro	Glu	Pro	Asp	Met	Ala
			100					105					110		
Trp	Arg	Ile	Cys	Arg	His	Trp	Phe	Val	Leu	Gly	Glu	Asn	Val	Arg	Thr
		115					120					125			
Ile	Tyr	Pro	Val	Ser	Ser	Pro	Asp	Tyr	Pro	Val	Arg	Leu	Phe	Asn	Arg
	130					135					140				
Thr	Gln	Ser	Arg	Phe	Asn	Asn	Arg	Pro	Val	Asp	Asp	Gln	Val	Glu	Gly
					150					155					160
Phe	Leu	His	Ser	Glu	Arg	Ile	Pro	Gly	Tyr	Val	Arg	His	Asp	Thr	Phe
			165					170						175	
Tyr	Ser	Leu	His	Glu	Leu	Phe	Asn	Lys	Leu	Asn	Gly	Tyr	Ser	Thr	Arg
			180				185						190		
Leu	Val	Gln	Tyr	Gln	Thr	Ile	Arg	Pro	Ser	Leu	Gly	Arg	Gly	Ala	Ile
		195					200					205			
Ser	Ala	Ile	Gly	Ala	Phe	Phe	Lys	Trp	Tyr	Leu	Phe	Ser	Gly	Ala	Trp
	210					215					220				
Arg	Gln	Gly	Lys	Val	Gly	Val	Val	Thr	Gly	Phe	Tyr	Ala	Thr	Ala	Tyr
225					230					235					240
Ser	Phe	Leu	Lys	Tyr	Phe	Lys	Ala	Trp	Tyr	Gln	Asn	Arg	Glu	Lys	Lys
				245					250					255	

Asp Ser Xaa

<210> 7764
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 7764

Arg	Gly	Asn	Lys	Ser	Trp	Leu	Lys	Val	Phe	Ala	Lys	Lys	Ile	Lys	Leu
1				5					10					15	
Val	Ser	Ser	Ala	Gly	Thr	Gly	His	Phe	Tyr	Thr	Thr	Thr	Lys	Asn	Lys
			20					25					30		
Arg	Thr	Lys	Pro	Glu	Lys	Leu	Glu	Leu	Lys	Lys	Phe	Asp	Pro	Val	Val
		35					40					45			
Arg	Gln	His	Val	Leu	Tyr	Lys	Glu	Ala	Lys	Ile	Lys				
	50					55					60				

<210> 7765
 <211> 292
 <212> PRT
 <213> Enterobacter cloacae

<400> 7765

```

Ser Pro Cys Ile Glu Lys Pro Arg Asn Cys Gly Val Phe Cys Ile Leu
1      5      10      15
His Leu Asn Gly Gly Thr Met Pro Glu Leu Pro Glu Val Glu Thr Ser
20      25      30
Arg Arg Gly Ile Glu Pro His Leu Val Gly Ala Thr Ile Leu His Ala
35      40      45
Val Val Arg Asn Gly Arg Leu Arg Trp Pro Val Ser Asp Glu Ile His
50      55      60
Ala Leu Ser Asp Lys Pro Val Leu Ser Val Gln Arg Arg Ala Lys Tyr
65      70      75      80
Leu Leu Leu Glu Leu Pro Asp Gly Trp Ile Ile Ile His Leu Gly Met
85      90      95
Ser Gly Ser Leu Arg Ile Leu Thr Glu Glu Leu Pro Ala Glu Lys His
100     105     110
Asp His Val Asp Leu Val Met Ser Asn Gly Lys Val Leu Arg Tyr Thr
115     120     125
Asp Pro Arg Arg Phe Gly Ala Trp Leu Trp Thr Lys Glu Leu Glu Gly
130     135     140
His Asn Val Leu Ala His Leu Gly Pro Glu Pro Leu Ser Glu Ala Phe
145     150     155     160
Asn Ala Asp Tyr Leu Lys Glu Lys Cys Ala Lys Lys Lys Thr Pro Ile
165     170     175
Lys Pro Trp Leu Met Asp Asn Lys Leu Val Val Gly Val Gly Asn Ile
180     185     190
Tyr Ala Ser Glu Ser Leu Phe Ala Ala Gly Ile His Pro Asp Arg Leu
195     200     205
Ala Ser Ser Leu Ser Ala Gln Glu Cys Glu Leu Leu Val Arg Val Ile
210     215     220
Lys Ala Val Leu Leu Arg Ser Ile Glu Gln Gly Gly Thr Thr Leu Lys
225     230     235     240
Asp Phe Leu Gln Ser Asp Gly Lys Pro Gly Tyr Phe Ala Gln Glu Leu
245     250     255
Gln Val Tyr Gly Arg Lys Gly Glu Pro Cys Arg Ala Cys Gly Thr Pro
260     265     270
Ile Ile Ala Thr Lys His Ala Gln Arg Ala Thr Phe Tyr Cys Arg Gln
275     280     285
Cys Gln Lys
290

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<210> 7766
 <211> 465
 <212> PRT
 <213> Enterobacter cloacae

<400> 7766

```

Ser Met Ser Arg Gly Ile Ser Arg Thr Leu Ile Ser Leu Ser Tyr His
1      5      10      15
His Asn Ala Gln Ala Ser Ala Ile His Arg Tyr Ala Ala Gly Val Arg
20      25      30
Val Ile Tyr Ala Ala Lys Thr Arg Arg Asp Thr Ala Ser Ser Arg His
35      40      45
Glu Leu Leu Val Trp Val Ile Cys Ala Lys Ile Cys Arg Val Trp Arg
50      55      60
Ile Ala Met Arg Gly Asp Phe Tyr Lys Gln Leu Asn Ser Asp Leu Glu

```

65					70					75					80
Thr	Ala	Arg	Ala	Glu	Gly	Leu	Phe	Lys	Glu	Glu	Arg	Ile	Ile	Thr	Ser
				85					90					95	
Ala	Gln	Gln	Ala	Asp	Ile	Thr	Val	Ala	Asp	Gly	Ser	His	Val	Ile	Asn
			100					105					110		
Phe	Cys	Ala	Asn	Asn	Tyr	Leu	Gly	Leu	Ala	Asn	His	Pro	Glu	Leu	Ile
		115					120					125			
Ala	Ala	Ala	Lys	Asn	Gly	Met	Asp	Thr	His	Gly	Phe	Gly	Met	Ala	Ser
		130				135					140				
Val	Arg	Phe	Ile	Cys	Gly	Thr	Gln	Asp	Ser	His	Lys	Gln	Leu	Glu	Gln
145					150					155					160
Lys	Leu	Ala	Asn	Phe	Leu	Gly	Met	Glu	Asp	Ala	Ile	Leu	Tyr	Ser	Ser
			165						170					175	
Cys	Phe	Asp	Ala	Asn	Gly	Gly	Leu	Phe	Glu	Thr	Leu	Leu	Gly	Ala	Glu
			180					185					190		
Asp	Ala	Ile	Ile	Ser	Asp	Ala	Leu	Asn	His	Ala	Ser	Ile	Ile	Asp	Gly
		195					200					205			
Val	Arg	Leu	Cys	Lys	Ala	Lys	Arg	Phe	Arg	Tyr	Ala	Asn	Asn	Asp	Met
210						215					220				
Val	Glu	Leu	Glu	Ala	Arg	Leu	Lys	Glu	Ala	Arg	Glu	Ala	Gly	Ala	Arg
225					230					235					240
His	Val	Leu	Ile	Ala	Thr	Asp	Gly	Val	Phe	Ser	Met	Asp	Gly	Val	Ile
			245						250					255	
Ala	Asn	Leu	Lys	Gly	Val	Cys	Asp	Leu	Ala	Asp	Lys	Tyr	Asp	Ala	Leu
			260					265					270		
Val	Met	Val	Asp	Asp	Ser	His	Ala	Val	Gly	Phe	Val	Gly	Glu	Asn	Gly
		275					280					285			
Arg	Gly	Ser	His	Glu	Tyr	Cys	Asp	Val	Met	Gly	Arg	Val	Asp	Ile	Ile
290						295					300				
Thr	Gly	Thr	Leu	Gly	Lys	Ala	Leu	Gly	Gly	Ala	Ser	Gly	Gly	Tyr	Thr
305					310					315					320
Ala	Ala	Arg	Lys	Glu	Val	Val	Glu	Trp	Leu	Arg	Gln	Arg	Ser	Arg	Pro
			325						330					335	
Tyr	Leu	Phe	Ser	Asn	Ser	Leu	Ala	Pro	Ala	Ile	Val	Ala	Ala	Ser	Ile
			340					345					350		
Lys	Val	Leu	Glu	Met	Val	Glu	Ser	Gly	Ala	Glu	Leu	Arg	Glu	Arg	Leu
		355					360					365			
Trp	Ala	Asn	Ala	Arg	Leu	Phe	Arg	Glu	Lys	Met	Ser	Ala	Ala	Gly	Phe
370						375					380				
Thr	Leu	Ala	Gly	Ala	Asp	His	Ala	Ile	Ile	Pro	Val	Met	Leu	Gly	Asp
385					390					395					400
Ala	Val	Val	Ala	Gln	Gln	Phe	Ala	Arg	Glu	Leu	Gln	Lys	Glu	Gly	Ile
			405						410					415	
Tyr	Val	Thr	Gly	Phe	Phe	Phe	Pro	Val	Val	Pro	Lys	Gly	Gln	Ala	Arg
			420					425					430		
Ile	Arg	Thr	Gln	Met	Ser	Ala	Ala	His	Ser	Pro	Glu	Gln	Ile	Glu	Arg
		435					440					445			
Ala	Val	Glu	Ala	Phe	Thr	Arg	Ile	Gly	Lys	Gln	Leu	Gly	Val	Ile	Ala
450						455					460				

465

<210> 7767

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 7767

Gly	Arg	Val	Met	Lys	Ala	Leu	Ser	Lys	Leu	Lys	Ala	Glu	Glu	Gly	Ile
1				5					10					15	
Trp	Met	Thr	Asp	Val	Pro	Glu	Pro	Glu	Val	Gly	His	Asn	Asp	Leu	Leu

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<210> 7768
<211> 379
<212> PRT
<213> Enterobacter cloacae
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<400> 7768															
Pro	Ala	Arg	Arg	Arg	Leu	Arg	Gln	Ala	Val	Gln	Asp	Arg	Cys	Arg	Arg
1				5					10					15	
Arg	Asn	Gly	Ile	Tyr	Gly	Leu	Ala	Glu	Pro	Arg	Arg	Ile	Ser	Met	Lys
			20					25					30		
Ile	Leu	Val	Ile	Gly	Pro	Ser	Trp	Val	Gly	Asp	Met	Met	Met	Ser	Gln
			35				40					45			
Ser	Leu	Tyr	Arg	Thr	Leu	Lys	Ala	Arg	Tyr	Pro	Gln	Ala	Ile	Ile	Asp
	50					55					60				
Val	Met	Ala	Pro	Ala	Trp	Cys	Arg	Pro	Leu	Leu	Ser	Arg	Met	Pro	Glu
65					70					75				80	
Val	Asn	Glu	Ala	Ile	Pro	Met	Pro	Leu	Gly	His	Gly	Ala	Leu	Glu	Ile
				85					90					95	
Gly	Glu	Arg	Arg	Lys	Leu	Gly	His	Ser	Leu	Arg	Glu	Lys	Arg	Tyr	Asp

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<210> 7769
<211> 329
<212> PRT
<213> Enterobacter cloacae
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Arg	Met	Arg	Val	Leu	Ile	Val	Lys	Thr	Ser	Ser	Met	Gly	Asp	Val	Leu
1				5					10					15	
His	Thr	Leu	Pro	Ser	Leu	Thr	Asp	Ala	Met	Arg	Ala	Ile	Pro	Gly	Ile
			20					25					30		
Arg	Phe	Asp	Trp	Val	Val	Glu	Glu	Gly	Phe	Ala	Gln	Ile	Pro	Thr	Trp
		35				40						45			
His	Glu	Ala	Val	Asp	Arg	Val	Ile	Pro	Val	Ala	Ile	Arg	Arg	Trp	Arg
	50					55					60				
Lys	Ala	Trp	Phe	Ser	Ala	Pro	Ile	Lys	Ala	Glu	Arg	Lys	Ala	Phe	Arg
65				70						75				80	
Glu	Ala	Val	Gln	Ala	Arg	Arg	Tyr	Asp	Ala	Ile	Val	Asp	Ala	Gln	Gly
			85						90					95	
Leu	Val	Lys	Ser	Ala	Ala	Leu	Val	Thr	Arg	Leu	Ala	His	Gly	Val	Lys
			100					105					110		
His	Gly	Met	Asp	Trp	Gln	Thr	Ala	Arg	Glu	Pro	Leu	Ala	Ser	Leu	Phe
		115					120					125			
Tyr	Asn	Arg	Arg	His	His	Ile	Ala	Lys	Gln	Gln	His	Ala	Val	Glu	Arg
	130					135					140				
Thr	Arg	Glu	Leu	Phe	Ala	Lys	Ser	Leu	Gly	Tyr	Ala	Lys	Pro	Glu	Ala

145					150					155				160
Gln	Gly	Asp	Tyr	Ala	Ile	Ala	Gln	His	Phe	Leu	Arg	Glu	Thr	Glu
				165					170					175
His	Ala	Glu	Pro	Tyr	Leu	Val	Phe	Leu	His	Ala	Thr	Thr	Arg	Asp
			180					185					190	
Lys	His	Trp	Pro	Glu	Thr	His	Trp	Arg	Arg	Leu	Ile	Glu	Leu	Met
		195					200					205		Gln
Pro	Cys	Gly	Ile	His	Ile	Lys	Leu	Pro	Trp	Gly	Ala	Glu	His	Glu
	210					215					220			Arg
Gln	Arg	Ala	Glu	Arg	Leu	Ala	Ala	Gly	Phe	Ser	His	Val	Glu	Val
225					230					235				Leu
Pro	Lys	Leu	Thr	Leu	Ala	Gln	Val	Ala	Ala	Gln	Leu	Ala	Gly	Ala
				245					250					Asn
Ala	Val	Val	Ser	Val	Asp	Thr	Gly	Leu	Ser	His	Leu	Thr	Ala	Ala
			260				265						270	Leu
Asp	Arg	Pro	Asn	Ile	Thr	Ile	Phe	Gly	Pro	Thr	Asp	Pro	Gly	Leu
		275					280					285		Ile
Gly	Gly	Tyr	Gly	Lys	Asn	Gln	His	Gln	Met	Val	Ser	Pro	Thr	Gln
	290				295					300				Gln
Thr	Lys	Asp	Ile	Ser	Ala	Asp	Ala	Ile	Phe	Ser	Phe	Leu	Gln	Gly
305					310					315				Ser
His	Arg	Leu	Ser	Asn	Arg	Asp	Ile							
				325										

<210> 7770

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 7770

Pro	Met	Ser	Tyr	Val	Phe	Leu	Leu	Ile	Leu	Leu	Phe	Pro	Val	Lys	Leu
1				5					10					15	
Ile	Arg	Lys	Leu	Phe	Arg	Lys	Asp	Thr	Gly	Lys	Asn	Leu	Val	Ile	Gln
			20					25					30		
Thr	Ala	Lys	Ile	Gly	Asp	Phe	Ile	Asn	Ala	Thr	Pro	Leu	Leu	Ala	Trp
		35				40					45				
Leu	Gln	Lys	Ser	Asp	Val	Leu	Ile	Ser	Arg	Ser	Val	Gly	Ala	Leu	Ala
	50					55				60					
Lys	His	Asp	Glu	Thr	Ile	Glu	Gln	Ile	Tyr	Phe	Ile	Glu	Gln	His	Lys
65					70				75					80	
Arg	Asn	Leu	Trp	Arg	Lys	Leu	Cys	Phe	Ala	Cys	Arg	Ile	Met	Asn	Arg
			85					90					95		
Tyr	Asp	Asn	Val	Tyr	Leu	Leu	Gln	Pro	Asn	Ser	Val	Asn	Leu	Phe	Phe
		100						105					110		
Ala	Ala	Val	Cys	Asn	Ala	Lys	Asn	Lys	Gln	Phe	Leu	Ser	Ile	Tyr	Thr
		115					120					125			
Arg	Arg	Trp	Tyr	His	Gly	Ile	Phe	Tyr	Leu	Ala	Ala	Asp	Gly	Thr	Val
	130					135					140				
Glu	His	Gly	Lys	Lys	Thr	Leu	Ser	Val	Ala	Asn	Tyr	Leu	Lys	Leu	Ala
145					150				155						160
Asp	Arg	Ser	Leu	Thr	Trp	Gln	Asp	Ser	Pro	Lys	His	Ala	Thr	Lys	Pro
			165					170						175	
Leu	Phe	Lys	Pro	Thr	Thr	Trp	Pro	Ala	Ile	Leu	Asp	Lys	Pro	Asp	Val
		180						185					190		
Ile	Arg	Ile	Gly	Ile	Ser	Ile	Ala	Ala	Gly	Asn	Lys	Ala	Lys	Thr	Val
	195					200					205				
Pro	Pro	Val	Ile	Trp	Lys	Arg	Ile	Val	Asp	Gln	Leu	Ala	Asp	Leu	Pro
	210					215					220				
Cys	Glu	Phe	Tyr	Val	Phe	Gly	Ala	Pro	Asn	Glu	Gln	Ser	Trp	Met	Asp
225					230					235				240	
Asp	Ile	Thr	Arg	Leu	Tyr	Gly	Glu	Ile	Pro	Asn	Phe	Ile	Asn	Leu	Ile

				245				250					255				
Gly	Lys	Ile	Ser	Leu	Glu	Glu	Leu	Pro	Trp	Ala	Ile	Ser	Lys	Met	Asp		
			260					265					270				
Cys	Tyr	Ile	Ala	Ser	Asp	Ser	Gly	Asn	Val	Tyr	Ile	Ala	Asp	Ala	Val		
		275					280					285					
Gly	Val	Pro	Val	Val	Leu	Leu	Phe	Gly	Pro	Cys	Cys	His	Tyr	Glu	Gln		
	290					295					300						
Arg	Pro	Leu	Gly	Asn	Val	Met	Leu	Ile	Gly	Asn	Asp	Asp	Asn	Ile	Cys		
305					310					315					320		
Ser	Tyr	Val	Phe	Glu	Thr	Arg	Tyr	Tyr	Phe	Pro	Gln	Glu	Arg	Glu	Ala		
			325						330						335		
Leu	Phe	Ser	Val	Thr	Asp	Ser	Ala	Leu	His	Asp	Leu	Gln	Gln	Phe	Val		
		340						345					350				
Arg	Thr	Leu	Pro	Lys	Ala	Arg	Ser	Leu	Ala	Ser	Ala	Thr	Asp	Ala	Gln		
		355					360					365					
Gly	Asn																
	370																

<210> 7771

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 7771

Tyr	Asn	Ala	Asp	Lys	Met	Met	Met	Asn	Asn	Leu	Pro	Asp	Thr	Pro	Asp		
1				5				10						15			
Leu	Arg	Ile	Leu	Leu	Ile	Lys	Leu	Arg	His	His	Gly	Asp	Met	Leu	Leu		
		20						25					30				
Thr	Thr	Pro	Val	Ile	Asn	Ser	Leu	Arg	Gln	Lys	Trp	Pro	Glu	Ala	Gln		
		35					40					45					
Ile	Asp	Val	Leu	Leu	Tyr	Glu	Glu	Thr	Arg	Asp	Met	Leu	Ala	Ala	His		
	50				55						60						
Pro	Ala	Ile	Gly	Thr	Ile	Tyr	Gly	Ile	Asp	Arg	Lys	Trp	Lys	Gln	Leu		
65				70					75						80		
Gly	Thr	Leu	Lys	His	Leu	Gln	Lys	Glu	Trp	Gln	Leu	Leu	Arg	Ala	Leu		
			85					90						95			
Arg	Ala	Gln	His	Tyr	His	Leu	Val	Ile	Asn	Leu	Ala	Asp	Gln	Trp	Arg		
		100						105					110				
Ser	Ala	Ile	Val	Thr	Arg	Phe	Thr	Gly	Ala	Pro	Val	Arg	Leu	Gly	Phe		
		115					120					125					
Ala	Phe	Asn	Lys	Arg	Lys	Asn	Ala	Phe	Trp	Arg	Phe	Cys	His	Ser	Glu		
	130				135						140						
Leu	Val	Ser	Val	Ala	Ser	His	Gln	Ser	Leu	His	Thr	Val	Glu	Gln	Asn		
145				150					155						160		
Leu	Ser	Ile	Leu	Ser	Ala	Leu	Pro	Val	Met	Ala	Asn	Pro	Thr	Val	Thr		
			165					170						175			
Met	Ala	Tyr	Ser	Ala	Asp	Asp	Trp	Arg	His	Ala	His	Gln	Lys	Leu	Thr		
		180						185					190				
Gln	Lys	Gly	Val	Gly	Asp	Arg	Tyr	Ile	Val	Ile	Gln	Pro	Thr	Ser	Arg		
	195						200					205					
Trp	Phe	Phe	Lys	Cys	Trp	Asp	Glu	Gly	Lys	Met	Ala	Gln	Thr	Ile	Ala		
	210					215					220						
Ala	Leu	Gln	Gln	Asp	Gly	His	Thr	Ile	Val	Leu	Thr	Ala	Gly	Pro	Asp		
225				230					235						240		
Lys	Lys	Glu	Leu	Ala	Met	Ile	Asp	Arg	Ile	Leu	Ala	Ala	Ser	Pro	Gln		
			245					250						255			
Thr	Gly	Val	Val	Ser	Leu	Ala	Gly	Gln	Leu	Thr	Leu	Arg	Gln	Leu	Ala		
		260					265						270				
Ser	Leu	Ile	Asp	His	Ala	Ile	Leu	Phe	Ile	Gly	Val	Asp	Ser	Val	Pro		
	275						280					285					
Met	His	Met	Ala	Ala	Ala	Leu	Gln	Thr	Pro	Cys	Val	Ala	Leu	Phe	Gly		

290		295		300
Pro Ser Lys Leu Thr Phe Trp Ser Pro Trp Gln Val Asn Gly Glu Val				
305		310		315
Ile Trp Ala Gly Asn Tyr Gly Pro Leu Pro Asn Pro Asp Ala Ile Asp				
	325		330	335
Thr Lys Thr Thr Glu Arg Tyr Leu Asp Ala Ile Pro Val Asp Ala Val				
	340		345	350
Val Ser Ala Ala Arg Arg Tyr Leu Gln				
	355		360	

<210> 7772

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 7772

Arg His Leu Pro Ala Ile His Cys Phe Gly Arg Gln Pro Lys Ile Ile				
1	5	10	15	
Arg Phe His Met Gln Asn Ser Ala Pro Leu Leu Ser Val Val Val Ala				
	20	25	30	
Val Tyr Asn Gly Glu Ala Phe Leu Asp Gln Phe Phe Thr Cys Leu Val				
	35	40	45	
Asn Gln His Ile Asp Ser Met Glu Val Ile Ile Val Asn Asp Gly Ser				
	50	55	60	
Thr Asp Arg Ser Met Gln Ile Val Glu Lys Trp Arg Glu Lys Leu Pro				
65	70	75	80	
Gln Met Gln Val Ile Glu Gln Pro Asn Gln Gly Val Ser Ile Ala Arg				
	85	90	95	
Asn Thr Gly Leu Ala Val Ala Thr Gly Gln Tyr Leu Ser Phe Pro Asp				
	100	105	110	
Ile Asp Asp Val Phe Lys Pro Gly Met Tyr Gln Arg Leu Leu Asp Met				
	115	120	125	
Ala Val Thr Gln Asn Leu Asp Val Ala Thr Cys Asn Gly Asn Tyr Val				
	130	135	140	
Trp Glu Asn Asn Lys Lys Pro Ser Arg Pro Ile Phe Pro Glu Val Lys				
145	150	155	160	
Leu Ala Ser Thr Gly Val Met Asn Gly Ala Val Trp Leu Lys Lys Ala				
	165	170	175	
Leu Asp Ser Arg Lys Phe Leu His Val Thr Trp Leu Asn Ile Tyr Arg				
	180	185	190	
His Asp Phe Ile Arg Gln His Gly Phe Arg Phe Glu Pro Gly Leu Arg				
	195	200	205	
His Gln Asp Ile Pro Trp Thr Thr Glu Val Leu Leu Ala Ala Glu Arg				
	210	215	220	
Val Gln Tyr Thr Ser Glu Arg Phe Tyr Asp Tyr Tyr Ile His Ser Ala				
225	230	235	240	
Ser Val Ser His Thr Pro Asp Asn Asp Asp Thr Leu Ile Arg Ser Ala				
	245	250	255	
Arg His Tyr Met Lys Ile Leu Lys Met Leu Asp Ala Ile Asn Gln Arg				
	260	265	270	
Tyr Pro Asp Lys Val Lys Asn Ile Pro Ala Cys His Trp Gln Ile Ala				
	275	280	285	
Lys Glu Gly Leu Gly Ile Ile His Thr Phe Asp Asn Met Lys Asp Glu				
	290	295	300	
Ala Lys Lys Ala Met Ile Ile Lys Glu Phe Phe Asp Thr Gly Ile Trp				
305	310	315	320	
Lys Leu Ile Trp Lys Ser Ala Lys Ser Pro Arg Leu Arg Trp Arg Leu				
	325	330	335	
Gly Arg Arg Tyr Phe Arg Leu Lys Arg Tyr Leu Ala				
	340	345		

<400> 7773

[illegible]

435

<210> 7774

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7774

His Thr Asp Ser Asp Met Pro Gln Lys Arg Lys Ile Leu Leu Leu Asp
 1 5 10 15
 Thr Gly Lys Glu Trp Gly Gly Gly Thr Asn Ser Met Leu Glu Leu Leu
 20 25 30
 Lys Arg Ile Asn Arg Glu Lys Phe Asp Ile Thr Cys Cys Phe Tyr Ser
 35 40 45
 Asp Tyr Ser Arg Ala Glu Gly Glu Thr Ile Gly Gln Val Leu Asn Ser
 50 55 60
 Ile Gly Ile Pro Leu Leu Val Ile Pro Gln Arg Lys Gln Pro Ala Trp
 65 70 75 80
 Ala Lys Leu Leu Lys Glu Ala Gly Arg Gly Leu Leu Phe Phe Ser Arg
 85 90 95
 Ser Ala Arg Lys Ala Phe Thr Arg His Ile Asp Thr Leu Trp Arg Ile
 100 105 110
 Arg Pro Asn Val Ser Lys Ile Glu Thr Ile Phe Arg Glu Gly Gly Phe
 115 120 125
 Asp Thr Leu Tyr Met Asn Asn Gln Pro Gly Ser Asn Glu Glu Gly Tyr
 130 135 140
 Leu Ala Gly Ala Asn Leu His Ala Arg Ile Ile Gln His Cys Arg Ile
 145 150 155 160
 Glu Pro Val Leu Thr Pro Pro Leu Val Lys Leu Val Asn Thr His Ala
 165 170 175
 Thr Lys Ile Ile Ala Val Ser His Gly Val Glu Arg Val Leu Leu Gln
 180 185 190
 His Gly Val Arg Pro Ala Leu Cys Thr Thr Val Asn Asn Ala Ile Asp
 195 200 205
 Ile His Gln Pro Leu Pro Asp Arg Arg Ala Met Arg Gln Arg Leu Asn
 210 215 220
 Ile Asp Asp Asp Thr Phe Val Phe Gly Ser Val Gly Ser Leu Ile Pro
 225 230 235 240
 Arg Lys Ala Asn His Thr Leu Glu Ala Leu Ala Gln Phe Asn Gln
 245 250 255
 Arg His Pro Gln Ala Lys Trp Lys Met Val Leu Val Gly Glu Gly Ala
 260 265 270
 Glu Arg Gly Ala Leu Thr Ala Gln Ala Asp Ala Leu Gly Ile Ala Glu
 275 280 285
 His Val Ile Phe Thr Gly Phe Gln Asn Thr Pro Phe Asp Tyr Leu Ala
 290 295 300
 Thr Phe Asp Ala Phe Ile Leu Ala Ser Lys Ser Glu Gly Leu Pro Arg
 305 310 315 320
 Val Val Leu Glu Ala Met Leu Leu Asn Ile Pro Val Ile Gly Ser Lys
 325 330 335
 Val Thr Gly Thr Ala Glu Leu Ile Asp His Glu Ser Thr Gly Leu Leu
 340 345 350
 Phe Pro Trp Ser Asp Val Ser Gln Leu Ala Gln His Leu Asp Asn Ile
 355 360 365
 Trp Gln Asp Pro Ala Leu Arg Ala Arg Leu Ala Ala Ala His Gln
 370 375 380
 Asn Val Cys Asn Met Tyr Ala Ile Glu Ser Tyr Val Asn Gly Val Glu
 385 390 395 400
 Ala Val Leu Gly Ala Gln
 405

<210> 7775
 <211> 325
 <212> PRT
 <213> Enterobacter cloacae

<400> 7775

Arg	Ser	Gly	Tyr	Ser	Pro	Thr	His	Thr	Ser	Lys	Val	Thr	Val	Met	Ile
1				5					10					15	
Ile	Val	Thr	Gly	Gly	Ala	Gly	Phe	Ile	Gly	Ser	Asn	Ile	Val	Lys	Ala
		20					25					30			
Leu	Asn	Asp	Lys	Gly	Ile	Thr	Asp	Ile	Leu	Val	Val	Asp	Asn	Leu	Lys
		35					40					45			
Asp	Gly	Thr	Lys	Phe	Val	Asn	Leu	Val	Asp	Leu	Asn	Ile	Ala	Asp	Tyr
	50					55					60				
Met	Asp	Lys	Glu	Asp	Phe	Leu	Ile	Gln	Ile	Met	Ala	Gly	Glu	Glu	Phe
65					70				75						80
Gly	Glu	Ile	Glu	Ala	Ile	Phe	His	Glu	Gly	Ala	Cys	Ser	Ser	Thr	Thr
				85				90						95	
Glu	Trp	Asp	Gly	Lys	Tyr	Met	Met	Asp	Asn	Asn	Tyr	Gln	Tyr	Ser	Lys
			100					105					110		
Glu	Leu	Leu	His	Tyr	Cys	Leu	Glu	Arg	Glu	Ile	Pro	Phe	Leu	Tyr	Ala
		115					120					125			
Ser	Ser	Ala	Ala	Thr	Tyr	Gly	Gly	Arg	Thr	Ser	Asp	Phe	Ile	Glu	Ser
	130					135					140				
Arg	Glu	Tyr	Glu	Gln	Pro	Leu	Asn	Val	Tyr	Gly	Tyr	Ser	Lys	Phe	Leu
145					150					155					160
Phe	Asp	Glu	Tyr	Val	Arg	Gln	Ile	Leu	Pro	Glu	Ala	Asn	Ser	Gln	Ile
				165				170						175	
Val	Gly	Phe	Arg	Tyr	Phe	Asn	Val	Tyr	Gly	Pro	Arg	Glu	Gly	His	Lys
			180					185					190		
Gly	Ser	Met	Ala	Ser	Val	Ala	Phe	His	Leu	Asn	Thr	Gln	Leu	Asn	Asn
		195					200					205			
Gly	Glu	Ser	Pro	Lys	Leu	Phe	Glu	Gly	Ser	Asp	Gly	Phe	Lys	Arg	Asp
	210					215					220				
Phe	Val	Tyr	Val	Gly	Asp	Val	Ala	Ala	Val	Asn	Leu	Trp	Phe	Leu	Glu
225					230					235					240
Asn	Gly	Val	Ser	Gly	Ile	Phe	Asn	Leu	Gly	Thr	Gly	Arg	Ala	Glu	Ser
				245					250					255	
Phe	Gln	Ala	Val	Ala	Asp	Ala	Thr	Leu	Ala	Tyr	His	Lys	Lys	Gly	Ser
			260					265					270		
Ile	Glu	Tyr	Ile	Pro	Phe	Pro	Asp	Lys	Leu	Lys	Gly	Arg	Tyr	Gln	Ala
		275					280					285			
Phe	Thr	Gln	Ala	Asp	Leu	Thr	Asn	Leu	Arg	Ala	Ala	Gly	Tyr	Asp	Lys
	290					295					300				
Pro	Phe	Lys	Thr	Val	Ala	Glu	Gly	Val	Thr	Glu	Tyr	Met	Ala	Trp	Leu
305					310					315					320
Asn	Arg	Asp	Ala												
															325

<210> 7776
 <211> 406
 <212> PRT
 <213> Enterobacter cloacae

<400> 7776

Gly	Ile	Met	Glu	Lys	Ile	Lys	Pro	Arg	Leu	Tyr	Gln	Leu	Thr	Ile	Ala
1				5					10					15	
Leu	Ser	Leu	Ile	Ser	Leu	Ile	Leu	Ala	Leu	Val	Ser	Ser	Gly	Lys	Gln
		20						25					30		
Arg	Glu	Phe	Phe	Tyr	Ile	Ala	Ile	Tyr	Val	Ser	Ile	Ile	Gly	Leu	Ala
		35					40					45			

Phe Glu Tyr Lys Lys Ile Thr Leu Arg Pro Phe Thr Ile Ala Leu Pro
 50 55 60
 Ile Leu Leu Ile Gly Leu Leu Asn Leu Gly Trp Tyr Leu Leu Tyr Glu
 65 70 75 80
 Tyr His Asn Glu Gly Leu Asn Leu Tyr Ser Asp Tyr Leu Gly Ala Ser
 85 90 95
 Lys Lys Leu Ile Leu Ala Ser Val Leu Ile Phe Tyr Ile Asp Arg Phe
 100 105 110
 Lys Phe Tyr Ile Asp Lys Asp Thr Phe Arg Lys Phe Phe Phe Phe Ala
 115 120 125
 Thr Ala Leu Gly Phe Val Leu Ala Thr Gly Tyr Gly Leu Trp Gln Ala
 130 135 140
 Ser Gln Gly Met Thr Arg Val Glu Met Ala Ile Asn Arg Ala Thr Val
 145 150 155 160
 Ser Ala Tyr Val Tyr Ser Val Leu Ser Leu Ala Phe Val Tyr Ser Leu
 165 170 175
 Tyr Leu Gln Gln Asn Val Lys Leu Tyr Val Val Ala Gly Phe Thr Ile
 180 185 190
 Leu Ile Ser Tyr Phe Val Ile Leu Leu Thr Gly Thr Arg Ala Ala Met
 195 200 205
 Gly Leu Tyr Leu Leu Leu Ala Ile Val Leu Thr Leu Tyr His Phe Arg
 210 215 220
 Lys Ile His Leu Lys Ser Ala Leu Ile Phe Leu Cys Ile Val Ala Gly
 225 230 235 240
 Val Val Ile Val Ser Tyr Lys Pro Leu Ile Ser Ser Lys Ile Lys Gln
 245 250 255
 Thr Gln Arg Glu Val Glu Arg Tyr Gln Gln Gly Phe Asp Arg Thr Ser
 260 265 270
 Leu Gly Ala Arg Phe Ser Met Trp Thr Val Gly Ile Glu Asn Gly Leu
 275 280 285
 Ala His Pro Leu Gly Gln Ser Leu Glu Gln Arg Glu Ala Trp Thr Arg
 290 295 300
 Gln Tyr Ile Lys Asp Gly His Pro His Leu Gly Ser Ala Leu Glu Tyr
 305 310 315 320
 Ile Lys Val His Leu His Asn Glu Phe Ile Glu Lys Tyr Ser Leu Gln
 325 330 335
 Gly Ile Pro Gly Val Thr Val Met Leu Phe Phe Phe Val Ser Met Ile
 340 345 350
 Ala Tyr Ala Leu Arg Asn Arg Asn Ala Leu Leu Leu Thr Ser Met Leu
 355 360 365
 Leu Leu Leu Leu Tyr Gly Leu Thr Asp Val Ile Leu Leu Ser Ser Glu
 370 375 380
 Ala Leu Ile Phe Phe Met Ile Leu Phe Ala Leu Ser Thr Pro Phe Ser
 385 390 395 400
 Gln Thr Lys Gln Gln
 405

<210> 7777

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 7777

Lys Thr Ile Lys Ser Ala Tyr Phe Ala Leu Ser Lys Ile Thr Gly Leu
 1 5 10 15
 Ile Met Arg Ile Leu Met Ile Ile Asp Gly Leu Pro Gly Gly Ala
 20 25 30
 Glu Lys Thr Val Leu Thr Leu Ser Ser Gly Leu Thr Glu Leu Gly His
 35 40 45
 Gln Val Thr Leu Phe Ser Leu Arg Lys Val Cys Asp Tyr Ala Ile Pro
 50 55 60

Glu	Gly	Ile	Asp	Phe	Gln	Ile	Val	Gln	Asp	Thr	Cys	Lys	Lys	Pro	Trp
65					70				75						80
Arg	Lys	Leu	Thr	Glu	Ile	Pro	Arg	Arg	Ala	Arg	Leu	Leu	Asp	Arg	Ala
				85					90					95	
Ile	Glu	Asn	Ala	Glu	Arg	Ser	Gly	Lys	Phe	Asp	Val	Val	Phe	Ser	His
			100					105					110		
Leu	His	Lys	Thr	Asp	Arg	Ile	Val	Ala	His	Ser	Arg	Val	Leu	Asp	Arg
		115					120					125			
Asp	Lys	Val	Trp	Phe	Cys	Val	His	Gly	Met	Phe	Ser	Phe	Ser	Tyr	Leu
	130					135				140					
Arg	His	Arg	Ser	Gly	Leu	Ser	Arg	Trp	Phe	Lys	His	Tyr	Lys	Ile	Arg
	145				150				155						160
His	Thr	Tyr	Glu	Asn	Arg	Asn	Val	Val	Ala	Val	Ser	Gly	Ala	Val	Leu
				165					170					175	
His	Asp	Leu	Ser	Gln	Val	Leu	Ala	Ile	Pro	Leu	Arg	Arg	Lys	Ala	Val
		180					185						190		
Ile	His	Asn	Pro	Phe	Asp	Ile	Pro	Glu	Ile	Gln	Arg	Leu	Ala	Glu	Ala
		195					200					205			
Pro	Phe	Glu	Met	Gln	Gly	Gln	Asp	Tyr	Ile	Ile	His	Val	Gly	Arg	Phe
	210				215						220				
His	Glu	His	Lys	Arg	His	Asp	Arg	Leu	Leu	Arg	Ala	Phe	Ala	Leu	Ser
	225				230					235					240
Lys	Ile	Asp	Ala	Ser	Leu	Val	Leu	Met	Gly	Lys	Gly	Ser	Asp	Ala	Lys
				245					250					255	
Ile	Asn	Gln	Leu	Lys	Gln	Leu	Ala	Ala	Lys	Leu	Gly	Ile	Glu	Asn	Lys
		260					265						270		
Ile	Val	Phe	Arg	Pro	Phe	Glu	Thr	Asn	Pro	Tyr	Pro	Trp	Ile	Lys	Gly
		275					280					285			
Ala	Arg	Leu	Leu	Val	Leu	Ser	Asp	Cys	Glu	Gly	Phe	Gly	Asn	Val	
	290					295				300					
Leu	Val	Glu	Ser	Ile	Ile	Cys	Gln	Thr	Pro	Pro	Val	Ser	Thr	Asn	Cys
	305				310					315					320
Pro	Gly	Gly	Pro	Ala	Glu	Ile	Leu	Thr	Gly	Pro	Leu	Ala	Arg	Gly	Leu
				325					330					335	
Thr	Ala	Leu	Thr	Asp	Glu	Ser	Leu	Ala	Lys	Thr	Leu	Ala	Glu	Leu	Tyr
			340				345						350		
Ala	Ser	Pro	Pro	Val	Val	Asp	Arg	Glu	Thr	Ile	Ala	Ser	Phe	Gly	Ile
		355					360					365			
Asn	Ala	Ile	Cys	Gln	Gln	Tyr	Ile	Ala	Leu	Val	Asp	Asn	Gln	Lys	
	370					375					380				

<210> 7778

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7778

Met	Pro	Leu	Met	Asn	Ser	Pro	Leu	Lys	Met	Thr	Leu	Phe	Gln	Ser	Met
1				5					10					15	
Asp	Ile	Ser	Asp	Gly	Gly	Ile	Pro	Ser	Ile	Ala	Ile	Arg	Pro	Pro	Trp
			20					25					30		
Phe	Met	Val	Ser	Ser	Met	Val	Arg	Asn	Ala	Gly	Gly	Ala	Pro	Asp	Ile
		35					40					45			
Ser	Arg	Pro	Thr	Ser	Lys	Pro	Ser	Val	Met	Pro	Ser	Ser	Ser	Ile	Thr
	50				55					60					
Ser	Val	Arg	Leu	Ser	Phe	Glu	Thr	Ser	Thr	Ala	Arg	Val	Thr	Pro	Ile
	65				70				75						80
Leu	Arg	Ala	Ser	Asp	Arg	Arg	Tyr	Ser	Phe	Thr	Ser	Val	Ile	Thr	Thr
			85						90					95	
Leu	Arg	Ala	Pro	Thr	Cys	Phe	Ala	Thr	Ala	Ala	Ala	Ile	Ile	Pro	Met
			100					105					110		

Gly Pro Ala Pro Glu Thr Ser Thr Ser Ser Pro Thr Arg Ser Lys Glu
 115 120 125
 Ser Ala Val Cys Thr Ala Leu Pro Asn Gly Ser Lys Met Glu Ala Arg
 130 135 140
 Ser Ser Glu Ile Leu Ser Gly Ile Leu Asn Ala Leu Asn Ala Gly Ile
 145 150 155 160
 Thr Arg Tyr Ser Ala Lys Gln Pro Gly Arg Phe Thr Pro Thr Pro Thr
 165 170 175
 Val Leu Arg His Arg Trp Val Arg Pro Pro Arg Gln Leu Arg Gln
 180 185 190

<210> 7779

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 7779

Arg Tyr Arg Arg Ser Arg Lys Leu Ile Phe Met Ala Phe Leu Ser Val
 1 5 10 15
 Ile Ile Ala Ala His Asn Ala Glu Ala Thr Leu His Ala Thr Leu Ser
 20 25 30
 Ser Leu Leu Ala Ala Ile Gly Gln Asp Thr Glu Val Ile Ile Phe Asn
 35 40 45
 Asp Asn Ser Glu Asp Ala Thr Gln Ala Ile Ile Glu Glu Trp Ser Pro
 50 55 60
 Lys Phe Pro Gln Ile Ile Thr Arg Thr Val Asn Phe Arg Asn Val Gly
 65 70 75 80
 Arg Val Arg Asn Ser Ala Val Ala Leu Ala Ser Gly Glu Tyr Ile Thr
 85 90 95
 Met Leu Asp Ser Asp Asp Cys Leu Lys Pro Gly Ser Leu Gly Asp Ala
 100 105 110
 Ile Ala Phe Leu Lys Ala Gln Arg Pro Asp Met Leu Leu Thr Arg Leu
 115 120 125
 Leu Glu Ile Arg Asp Pro Arg Lys Met Thr Ser Asp Trp Gln Gly Phe
 130 135 140
 Asn Pro Val Pro Leu Pro Arg Asn Glu Ala Val Ala Arg Phe Leu Arg
 145 150 155 160
 His Lys Asp Phe Gln Ala His Leu Ile Gly Gln Phe Ile His Arg Ser
 165 170 175
 Leu Tyr Glu Ser Asn Pro Ile Pro Pro Met Leu Cys Tyr Glu Asp Phe
 180 185 190
 Ala Val Phe Pro Gly Met Leu Met Gln Ser Asn Lys Ile Val Tyr Gln
 195 200 205
 Arg Gln Gly His Tyr Tyr Tyr Ile Lys Arg Arg Asp Ser Leu Ser Ser
 210 215 220
 Thr Leu Asp Ala Ser Lys Ile Ser Thr Leu Val Glu Cys Thr Leu Gln
 225 230 235 240
 Met Glu Arg Thr Phe Pro Ser Ser Tyr Lys His Leu Val Asn Cys His
 245 250 255
 Trp Phe Asp Ile Tyr Ser Asn His Arg Ser Cys Leu Thr Asp Gln Gln
 260 265 270
 Leu Gln Leu Val Lys Gln Arg Val Lys Ala Met Tyr Thr Leu Ser Phe
 275 280 285
 Phe Leu Ser Thr Asp Val Arg Phe Ser Tyr Lys Lys Arg Val Ile Glu
 290 295 300
 Ala Leu Trp Lys Lys
 305 310

<210> 7780

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 7780

Cys Cys Arg Leu Arg Arg Lys Glu Ile Pro Ala Met Lys Leu His Arg
 1 5 10 15
 Leu Ala Ile Val Arg Gln Lys Tyr Arg Pro Asp Gly Gly Ala Glu Arg
 20 25 30
 Phe Val Ser Arg Ala Leu Thr Ala Leu Ser Asn Gln Asn Leu Glu Leu
 35 40 45
 Asn Val Ile Thr Arg Glu Trp Gln Gly Glu Lys Gln Asp Asp Trp His
 50 55 60
 Ile His Ile Cys Asp Pro Arg Lys Trp Gly Arg Ile Ser Arg Glu Arg
 65 70 75 80
 Gly Phe Ala His Ala Arg Ala Leu Trp Gln Gln Gln Phe Asp
 85 90 95
 Ile Val Gln Ser His Glu Arg Ile Pro Gly Cys Asp Ile Tyr Arg Ala
 100 105 110
 Gly Asp Gly Val His Arg Arg Trp Leu Leu Gln Arg Thr Arg Ile Leu
 115 120 125
 Pro Ala Trp Arg Ala Lys Leu Leu Met His Asp Arg Tyr His Arg Tyr
 130 135 140
 Val Met Asn Ala Glu Arg Glu Met Tyr Gln Ala Pro Glu Leu Lys Ala
 145 150 155 160
 Val Ile Cys Asn Ala Glu Met Ile Lys Arg Glu Ile Val Glu Asp Phe
 165 170 175
 Asp Ile Asp Ala Lys Lys Ile His Val Ile Tyr Asn Ser Ile Asp Ser
 180 185 190
 Ser Arg Phe Val Pro Ala Glu Glu Arg Gln Arg Ala Val Leu Arg Gln
 195 200 205
 Gln Phe Gly Leu Pro Ala Asp Ala Val Ile Phe Cys Phe Val Gly Ser
 210 215 220
 Gly Phe Glu Arg Lys Gly Leu Ala Ser Ala Ile Arg Ala Ile Ala Gly
 225 230 235 240
 Thr Ser Ala Trp Leu Val Val Val Gly Gln Asp Lys Ala Glu Ser Arg
 245 250 255
 Tyr Arg Asp Leu Ala Arg Ser Leu Gly Cys Glu Gly Gln Ile Arg Phe
 260 265 270
 Leu Gly Met Gln Lys Glu Thr Leu Pro Phe Tyr Gln Leu Ser Asp Gly
 275 280 285
 Leu Leu Leu Pro Thr Leu Tyr Asp Pro Phe Pro Asn Val Ile Leu Glu
 290 295 300
 Ala Met Ala Cys Gly Leu Pro Val Ile Thr Ser Glu Ser Cys Gly Gly
 305 310 315 320
 Ser Glu Phe Ile Glu Gln Gly Gln Asn Gly Phe Tyr Cys Asp Ala Leu
 325 330 335
 Asp Ile His Thr Leu Lys Glu Ala Val Met Ser Ile Pro Ser Leu Glu
 340 345 350
 Lys Asn Asn Asn Met Gly Leu Ala Ala Arg Glu Arg Val Arg Glu Ala
 355 360 365
 Thr Pro Glu Lys Leu Ser Ser Gln Leu Ile Ser Leu Tyr Gln Lys Leu
 370 375 380
 Leu Asp
 385

<210> 7781

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 7781

Ser Pro Ala Ser Glu Pro Gly Arg Thr Asp Pro Ser Ala Ala Thr Ser

1				5					10				15		
Ala	Thr	Leu	Ser	Ala	Ala	Ala	Glu	Pro	Leu	Met	Ser	Thr	Arg	Leu	Ser
			20					25					30		
Val	Val	Met	Ile	Ala	Lys	Asn	Ala	Ala	Asp	Leu	Leu	Pro	Asp	Cys	Leu
		35					40					45			
Ala	Ser	Val	Ala	Trp	Ala	Asp	Glu	Ile	Val	Ile	Leu	Asp	Ser	Gly	Ser
		50				55					60				
Thr	Asp	Asn	Thr	Ala	Asp	Val	Ala	Arg	Ala	Ala	Gly	Ala	Lys	Val	Phe
65					70				75					80	
Thr	Asp	Thr	Asp	Trp	Gln	Gly	Tyr	Gly	Ile	Gln	Arg	Gln	Arg	Ala	Gln
			85					90						95	
Gly	Tyr	Ala	Thr	Gly	Asp	Tyr	Val	Leu	Met	Ile	Asp	Thr	Asp	Glu	Arg
			100					105					110		
Val	Thr	Pro	Glu	Leu	Arg	Gln	Ala	Ile	Gln	Thr	Val	Leu	Ala	Ala	Pro
		115					120					125			
Gln	Pro	Gly	Ala	Val	Tyr	Ser	Ile	Ala	Arg	Arg	Asn	Tyr	Phe	Leu	Gly
		130				135					140				
Arg	Phe	Met	Arg	His	Ser	Gly	Trp	Tyr	Pro	Asp	Arg	Val	Met	Arg	Leu
145					150				155					160	
Tyr	Ala	Arg	Glu	Arg	Tyr	Gln	Tyr	Asn	Asp	Asn	Leu	Val	His	Glu	Ser
			165					170						175	
Leu	Ala	Cys	Asp	Asn	Ala	Gln	Val	Ile	Pro	Leu	Thr	Gly	Asp	Leu	Leu
			180				185					190			
His	Leu	Thr	Cys	Arg	Asp	Phe	Ala	Ser	Phe	Gln	Arg	Lys	Gln	Leu	Asn
		195				200						205			
Tyr	Ala	Thr	Ala	Trp	Ala	Gln	Glu	Arg	His	Ala	Arg	Gly	Lys	Lys	Ala
		210				215					220				
Thr	Leu	Thr	Gly	Ile	Phe	Thr	His	Thr	Leu	Gly	Ala	Phe	Leu	Lys	Thr
225					230				235					240	
Leu	Leu	Leu	Arg	Gly	Gly	Val	Leu	Asp	Gly	Lys	Gln	Gly	Trp	Leu	Leu
			245						250					255	
Ala	Val	Val	Asn	Ala	Gln	Tyr	Thr	Phe	Asn	Lys	Tyr	Thr	Glu	Leu	Trp
			260					265					270		
Ala	Leu	Asn	Arg	Gly	Tyr	Ser	Glu	Lys	Thr						
		275					280								

<210> 7782

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 7782

Ala	Met	Ser	Thr	Lys	Ala	Ile	Tyr	Pro	Gly	Thr	Phe	Asp	Pro	Ile	Thr
1				5					10					15	
Asn	Gly	His	Ile	Asp	Ile	Ile	Thr	Arg	Ala	Ala	Cys	Met	Phe	Asp	Lys
			20					25					30		
Val	Ile	Met	Thr	Ile	Ser	Ala	Ser	Pro	Ser	Lys	Lys	Pro	Met	Phe	Asp
		35					40					45			
Leu	Asn	Glu	Arg	Val	Gln	Leu	Ala	Thr	Asp	Ala	Ile	Ser	His	Leu	Ser
		50				55					60				
Asn	Val	Glu	Val	Val	Gly	Phe	Ser	Asp	Leu	Met	Ala	Asn	Phe	Ala	Arg
65					70				75					80	
Asp	Arg	His	Ala	Asn	Ile	Leu	Ile	Arg	Gly	Leu	Arg	Ala	Val	Ala	Asp
			85					90						95	
Phe	Glu	Tyr	Glu	Met	Gln	Leu	Ala	His	Met	Asn	Arg	His	Leu	Met	Pro
			100					105					110		
Glu	Leu	Glu	Ser	Val	Phe	Leu	Met	Pro	Ser	Lys	Glu	Trp	Ser	Phe	Ile
		115					120					125			
Ser	Ser	Ser	Leu	Val	Lys	Glu	Val	Ala	Arg	His	His	Gly	Asp	Val	Thr
		130				135					140				
His	Phe	Leu	Pro	Val	Asn	Val	His	Gln	Ala	Leu	Met	Glu	Lys	Leu	Lys

145

150

155

160

<210> 7783

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 7783

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Ser Val Asn Arg Gln Arg Gly Met Ser Ser Leu Ala Leu Val Leu Leu
1      5      10
Leu Leu Val Leu Gly Thr Leu Ile Leu Thr Gly Leu Asn Gln Gln Leu
20      25      30
Gln Thr Phe Ser Thr Leu Val Ser Gly Glu Ser Leu Ser Val Arg Gln
35      40      45
Gln Ala Ala Val Gln Ser Ala Leu Glu Trp Gly Arg Val Gln Glu Trp
50      55      60
Ala Leu Gln Pro Glu Val Gln Cys Lys Gln Thr Gln Arg Leu Arg Val
65      70      75
Cys Val Arg Leu Phe Gly Glu Arg Val Leu Leu Ile Ala Gly Asn Asp
85      90      95
Asp Leu Leu Leu Trp Gln Gly Gly Asp Ile Ala Glu Gly Gln Ile Arg
100     105     110
Phe Ser Ala His Gly Trp Ser Asp Phe Cys Pro Leu Lys Glu Ser Thr
115     120     125
Leu Cys Gln Leu Pro
130

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<210> 7784

<211> 969

<212> PRT

<213> Enterobacter cloacae

<400> 7784

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Cys Ser Arg Asp Lys Glu Val Val Met Pro Gly Ser Thr Leu Phe Lys
1      5      10
Ala Phe Val Leu Phe Ile Ala Leu Trp Ala Pro Val Thr Gln Ala Asp
20      25      30
Ser Gly Trp Gln Pro Val Lys Glu Thr Ile Arg Lys Ser Asp Lys Asp
35      40      45
Thr Arg Gln Tyr Gln Ala Ile Arg Leu Asp Asn Gly Met Thr Val Leu
50      55      60
Leu Val Ser Asp Pro Gln Ala Val Lys Ser Leu Ser Ala Leu Val Val
65      70      75
Pro Val Gly Ser Leu Glu Asp Pro Asp Ala His Pro Gly Leu Ala His
85      90      95
Tyr Leu Glu His Met Thr Leu Met Gly Ser Lys Lys Tyr Pro Gln Pro
100     105     110
Asp Ser Leu Ser Glu Phe Leu Lys Met His Gly Gly Ser His Asn Ala
115     120     125
Ser Thr Ala Pro Tyr Arg Thr Ala Phe Tyr Leu Glu Val Glu Asn Asp
130     135     140
Ala Leu Asp Gly Ala Val Asp Arg Leu Ala Asp Ala Ile Ala Ala Pro
145     150     155
Leu Leu Asp Lys Lys Tyr Ala Asp Arg Glu Arg Asn Ala Val Asn Ala
165     170     175
Glu Leu Thr Met Ala Arg Thr Arg Asp Gly Met Arg Met Ala Gln Val
180     185     190
Ser Ala Glu Thr Ile Asn Pro Ala His Pro Gly Ser Arg Phe Ser Gly
195     200     205

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Gly	Asn	Leu	Glu	Thr	Leu	Ser	Asp	Lys	Pro	Gly	Ser	Pro	Val	Leu	Asp
	210					215					220				
Ala	Leu	His	Ala	Phe	Arg	Glu	Lys	Tyr	Tyr	Ser	Ala	Asn	Leu	Met	Lys
225					230					235					240
Ala	Val	Ile	Tyr	Ser	Asn	Lys	Pro	Leu	Pro	Thr	Leu	Ala	Asn	Met	Ala
				245					250					255	
Ala	Gln	Thr	Tyr	Gly	Arg	Val	Pro	Asn	Lys	Asn	Ile	Asp	Leu	Pro	Gln
			260					265					270		
Ile	Asn	Val	Pro	Val	Val	Thr	Asp	Ala	Gln	Lys	Gly	Ile	Val	Ile	His
	275					280						285			
Tyr	Val	Pro	Ala	Leu	Pro	Arg	Lys	Val	Leu	Arg	Val	Glu	Phe	Arg	Ile
	290					295					300				
Asp	Asn	Asn	Thr	Ala	Gln	Phe	Arg	Ser	Lys	Thr	Asp	Glu	Leu	Val	Thr
305					310					315					320
Tyr	Leu	Ile	Gly	Asn	Arg	Ser	Pro	Gly	Thr	Leu	Ser	Asp	Trp	Leu	Gln
				325					330					335	
Lys	Gln	Gly	Leu	Val	Glu	Gly	Ile	Arg	Ala	Asp	Ser	Asp	Pro	Val	Val
			340					345					350		
Asn	Gly	Asn	Ser	Gly	Val	Leu	Ala	Ile	Ser	Ala	Thr	Leu	Thr	Asp	Lys
		355					360					365			
Gly	Leu	Ala	His	Arg	Asn	Asp	Val	Val	Ala	Ala	Ile	Phe	Ser	Tyr	Leu
	370					375					380				
Ser	Leu	Leu	Arg	Asp	Lys	Gly	Val	Asp	Lys	Arg	Tyr	Phe	Asp	Glu	Leu
385					390					395					400
Ala	His	Val	Leu	Asp	Leu	Asp	Phe	Arg	Tyr	Pro	Ser	Ile	Thr	Arg	Asp
				405					410					415	
Met	Asp	Tyr	Val	Glu	Trp	Leu	Ala	Asp	Thr	Met	Ile	Arg	Val	Pro	Val
			420					425					430		
Glu	His	Thr	Leu	Asp	Ala	Val	Asn	Ile	Ala	Asp	Gln	Phe	Asp	Ala	Gly
		435					440					445			
Ala	Leu	Lys	Ala	Arg	Leu	Ala	Met	Met	Thr	Pro	Gln	Asn	Ala	Arg	Val
		450				455					460				
Trp	Tyr	Ile	Ser	Pro	Asn	Glu	Pro	His	Asn	Lys	Met	Ala	Tyr	Phe	Val
465					470					475					480
Asp	Ala	Pro	Tyr	Gln	Val	Glu	Lys	Ile	Ser	Glu	Gln	Thr	Phe	Ala	Gly
				485					490					495	
Trp	Gln	Lys	Lys	Ala	Gly	Glu	Ile	Ala	Leu	Lys	Leu	Pro	Glu	Leu	Asn
			500					505					510		
Pro	Tyr	Ile	Pro	Asp	Asp	Phe	Ser	Leu	Ile	Lys	Pro	Ala	Lys	Ala	Tyr
		515					520					525			
Pro	His	Pro	Glu	Leu	Ile	Val	Asp	Glu	Pro	Thr	Leu	Arg	Val	Val	Tyr
		530				535					540				
Thr	Pro	Ser	Arg	Tyr	Phe	Ala	Asp	Glu	Pro	Lys	Ala	Asp	Val	Ser	Val
545					550					555					560
Val	Leu	Arg	Asn	Pro	Lys	Ala	Met	Asp	Ser	Ala	Arg	Asn	Gln	Val	Leu
				565					570					575	
Phe	Ala	Leu	Asn	Asp	Tyr	Leu	Ala	Gly	Ile	Ala	Leu	Asp	Gln	Leu	Ser
			580					585					590		
Asn	Gln	Ala	Ala	Val	Gly	Gly	Ile	Ser	Phe	Ser	Thr	Asn	Ala	Asn	Asn
		595					600					605			
Gly	Leu	Met	Val	Asn	Ala	Asn	Gly	Tyr	Thr	Gln	Arg	Leu	Pro	Gln	Leu
	610					615					620				
Phe	Gln	Ala	Leu	Leu	Asp	Gly	Tyr	Phe	Ser	Tyr	Thr	Pro	Thr	Glu	Glu
625					630					635					640
Gln	Leu	Glu	Gln	Ala	Lys	Ser	Trp	Tyr	Ala	Gln	Met	Met	Asp	Ser	Ala
				645					650					655	
Glu	Lys	Gly	Lys	Ala	Tyr	Asp	Gln	Ala	Ile	Met	Pro	Ala	Gln	Met	Leu
			660					665					670		
Ser	Gln	Ile	Pro	Tyr	Phe	Gln	Arg	Glu	Asp	Arg	Arg	Ala	Ile	Leu	Pro
		675					680					685			
Ser	Val	Thr	Leu	Lys	Glu	Val	Leu	Ala	Tyr	Arg	Asp	Ala	Leu	Lys	Thr

690	695	700
Asn Thr Arg Pro Glu Phe Leu Val Val Gly Asn Met Ser Glu Asp Gln		
705	710	715
Ala Lys Thr Leu Ala Gln Asn Val Arg Ala Gln Leu Gly Ser Lys Gly		
	725	730
Asp Glu Trp Cys Arg Asn Gln Asp Val Leu Val Glu Lys Lys Gln Asn		
	740	745
Val Ile Phe Glu Lys Ala Gly Ser Ser Thr Asp Ser Ala Leu Ala Ala		
	755	760
Val Phe Val Pro Val Gly Tyr Asp Glu Phe Thr Ser Ser Ala Gln Ser		
	770	775
Ala Val Leu Gly Gln Ile Gln Pro Trp Phe Tyr Asn Gln Leu Arg		
785	790	795
Thr Glu Glu Gln Leu Gly Tyr Ala Val Phe Ala Phe Ser Met Asn Val		
	805	810
Gly Arg Gln Trp Gly Leu Gly Phe Leu Leu Gln Ser Ser Asp Lys Gln		
	820	825
Pro Ala Tyr Leu Trp Gln Arg Tyr Gln Ala Phe Phe Pro Gln Ala Glu		
	835	840
Ala Lys Leu Arg Ala Met Lys Pro Glu Glu Phe Ala Gln Ile Gln Gln		
	850	855
Ala Val Ile Ala Gln Val Met Gln Pro Pro Gln Thr Leu Gly Glu Glu		
865	870	875
Ala Ser Gln Leu Ser Lys Asp Phe Asp Arg Gly Asn Met Lys Phe Asp		
	885	890
Ser Arg Asp Lys Ile Val Ala Glu Ile Lys Gln Leu Thr Pro Gln Lys		
	900	905
Val Ala Asp Phe Phe His Gln Ala Val Val Lys Pro Gln Gly Met Ala		
	915	920
Ile Leu Ser Gln Val Ser Gly Ser Gln Asn Gly Lys Thr Asp Tyr Val		
	930	935
Lys Ser Lys Glu Trp Thr Val Trp Lys Ser Val Ser Ala Leu Gln Gln		
945	950	955
Thr Met Pro Trp Ser Lys Lys Glu		
	965	

<210> 7785

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 7785

Met Thr Val Tyr Ala Ser Phe Val Lys Val Phe Gly Gln Phe Gly Arg
1
Phe Val His Gln Ser Asp Phe Leu Leu Gly Arg Ser Met Ser Gly Ser
20
Asn Ser Ala Ile Ser Arg Arg Arg Leu Leu Lys Gly Ala Gly Ala Met
35
Trp Leu Leu Ser Val Ser Gln Val Gly Leu Ala Ala Thr Ser Gln Val
50
Val Ala Val Arg Val Trp Pro Ser Ser Thr Tyr Thr Arg Val Thr Val
65
Glu Ser Asn Arg Val Leu Lys Tyr Lys Gln Phe Ala Leu Ser Asn Pro
85
Glu Arg Val Val Val Asp Leu Glu Gly Val Asn Leu Asn Ser Val Leu
100
Lys Gly Met Ala Ala Gln Ile Arg Gly Asp Asp Pro Phe Ile Lys Ser
115
Ala Arg Val Gly Gln Phe Asp Pro Gln Thr Val Arg Met Val Phe Glu
130
Leu Lys Gln Asn Val Lys Pro Gln Leu Phe Ala Leu Ala Pro Val Ala

145					150				155				160
Ala	Phe	Lys	Glu	Arg	Leu	Val	Met	Asp	Leu	Tyr	Pro	Ala	Asn
				165					170				175
Asp	Ile	Gln	Asp	Pro	Leu	Leu	Ala	Leu	Glu	Asp	Tyr	Asn	Lys
			180					185				190	
Asp	Leu	Asp	Ser	Gln	Val	Pro	Pro	Ala	Gln	Ser	Gly	Pro	Lys
		195					200				205		
Lys	Ala	Gly	Arg	Asp	Arg	Pro	Ile	Val	Ile	Met	Leu	Asp	Pro
	210					215				220			
Gly	Gly	Glu	Asp	Ser	Gly	Ala	Val	Gly	Lys	Tyr	Arg	Thr	Arg
225					230					235			
Asp	Val	Val	Leu	Gln	Ile	Ala	Arg	Arg	Leu	Lys	Ala	Leu	Ile
				245					250				255
Glu	Gly	Asn	Met	Arg	Ala	Tyr	Met	Thr	Arg	Asn	Glu	Asp	Val
			260					265					270
Pro	Leu	Lys	Val	Arg	Val	Ala	Lys	Ala	Gln	Lys	Gln	Arg	Ala
		275					280					285	
Phe	Val	Ser	Ile	His	Ala	Asp	Ala	Phe	Thr	Ser	Arg	Gln	Pro
	290					295					300		
Ser	Ser	Val	Phe	Ala	Leu	Ser	Thr	Lys	Gly	Ala	Thr	Ser	Thr
305					310					315			
Arg	Tyr	Leu	Ala	Asp	Thr	Gln	Asn	Ala	Ser	Asp	Leu	Ile	Gly
				325					330				335
Ser	Lys	Ser	Gly	Asp	Arg	Tyr	Val	Asp	His	Thr	Met	Phe	Asp
			340					345				350	
Gln	Ser	Leu	Thr	Ile	Thr	Asp	Ser	Leu	Lys	Phe	Gly	Lys	Ala
		355					360					365	
Gly	Lys	Leu	Gly	Arg	Val	Asn	Lys	Leu	His	Lys	Asn	Ser	Val
	370					375					380		
Ala	Gly	Phe	Ala	Val	Leu	Lys	Ala	Pro	Asp	Ile	Pro	Ser	Ile
385					390					395			
Glu	Thr	Ala	Phe	Ile	Ser	Asn	Val	Glu	Glu	Glu	Arg	Lys	Leu
				405					410				415
Ala	Lys	Phe	Gln	Gln	Glu	Val	Ala	Glu	Ser	Ile	Leu	Ala	Gly
			420					425					430
Ala	Tyr	Phe	Ser	Asp	Gly	Glu	Thr	Leu	Ala	Arg	Arg	Gly	
		435					440					445	

<210> 7786

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 7786

Gln	Met	Asn	Ser	Gly	Tyr	Leu	His	Phe	Pro	Glu	Phe	Asp	Pro	Val	Ile
1				5					10					15	
Phe	Ser	Ile	Gly	Pro	Val	Ala	Leu	His	Trp	Tyr	Gly	Leu	Met	Tyr	Leu
			20					25					30		
Val	Gly	Phe	Val	Phe	Ala	Met	Trp	Leu	Ala	Gly	Arg	Arg	Ala	Ser	Arg
		35					40					45			
Pro	Gly	Ser	Gly	Trp	Thr	Lys	Asn	Glu	Val	Glu	Asn	Leu	Leu	Tyr	Ala
	50					55					60				
Gly	Phe	Leu	Gly	Val	Phe	Leu	Gly	Gly	Arg	Ile	Gly	Tyr	Val	Leu	Phe
65					70					75					80
Tyr	Asn	Phe	Pro	Val	Phe	Leu	Asn	Asp	Pro	Leu	Tyr	Leu	Phe	Arg	Val
				85					90					95	
Trp	Asp	Gly	Gly	Met	Ser	Phe	His	Gly	Gly	Leu	Ile	Gly	Val	Ile	Leu
			100					105					110		
Val	Met	Val	Ile	Phe	Ala	Arg	Arg	Thr	Lys	Arg	Asn	Phe	Phe	Gln	Val
	115						120					125			
Ala	Asp	Phe	Ile	Ala	Pro	Leu	Ile	Pro	Phe	Gly	Leu	Gly	Ala	Gly	Arg

130	135	140
Leu Gly Asn Phe Ile Asn Gly Glu Leu Trp Gly Arg Val Asp Pro Ser		
145	150	155
Val Pro Phe Thr Met Leu Phe Pro Gly Ser Arg Ala Glu Asp Ile Ala		
	165	170
Leu Leu Pro Ser His Pro Glu Trp Gln Ser Ile Phe Asp Thr Tyr Gly		
	180	185
Val Leu Pro Arg His Met Ser Gln Leu Tyr Glu Leu Ala Leu Glu Gly		
	195	200
Val Val Leu Phe Ile Ile Leu Asn Leu Tyr Ile Arg Lys Pro Arg Pro		
	210	215
Met Gly Ala Val Ser Gly Leu Phe Leu Ile Gly Tyr Gly Ala Phe Arg		
225	230	235
Ile Ile Val Glu Phe Phe Arg Gln Pro Asp Ala Gln Phe Thr Gly Glu		
	245	250
Trp Val Gln Tyr Ile Ser Met Gly Gln Ile Leu Ser Ile Pro Met Ile		
	260	265
Val Ala Gly Ala Ile Met Met Ile Trp Ala Tyr Arg Arg Arg Pro Gln		
	275	280
Gln Gln Leu Ser		285
290		

<210> 7787

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 7787

Gly Ile Met Lys Gln Tyr Leu Glu Leu Met Lys Lys Val Leu Asp Glu	
1	5
Gly Thr Pro Lys Asn Asp Arg Thr Gly Thr Gly Thr Leu Ser Ile Phe	
	20
Gly His Gln Met Arg Phe Asn Leu Gln Glu Gly Phe Pro Leu Val Thr	
	35
Thr Lys Arg Cys His Leu Arg Ser Ile Ile His Glu Leu Leu Trp Phe	
	50
Leu Gln Gly Asp Thr Asn Val Ala Tyr Leu His Glu Asn Asn Val Ser	
65	70
Ile Trp Asp Glu Trp Ala Asp Glu Asn Gly Asp Leu Gly Pro Val Tyr	
	85
Gly Lys Gln Trp Arg Ala Trp Pro Thr Pro Asp Gly Arg His Ile Asp	
	100
Gln Ile Thr Thr Val Ile Asn Gln Leu Lys Asn Asp Pro Asp Ser Arg	
	115
Arg Ile Ile Val Ser Ala Trp Asn Val Gly Glu Leu Asp Lys Met Ala	
	130
Leu Ala Pro Cys His Ala Phe Phe Gln Phe Tyr Val Ala Asp Gly Lys	
145	150
Leu Ser Cys Gln Leu Tyr Gln Arg Ser Cys Asp Val Phe Leu Gly Leu	
	165
Pro Phe Asn Ile Ala Ser Tyr Ala Leu Leu Val His Met Met Ala Gln	
	180
Gln Cys Asp Leu Glu Val Gly Asp Phe Val Trp Thr Gly Gly Asp Thr	
	195
His Leu Tyr Ser Asn His Met Glu Gln Thr His Leu Gln Leu Thr Arg	
	210
Glu Pro Arg Ala Leu Pro Lys Leu Val Ile Lys Arg Lys Pro Asp Ser	
225	230
Ile Phe Asp Tyr Arg Phe Asp Asp Phe Glu Ile Glu Gly Tyr Asp Pro	
	245
His Pro Gly Ile Lys Ala Pro Val Ala Ile	
	250
	255

260

265

<210> 7788

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 7788

Cys	Arg	Arg	Arg	Arg	Cys	Met	Pro	Val	Asn	Arg	Lys	Gly	Phe	Ser	Leu
1				5					10					15	
Leu	Glu	Val	Leu	Ile	Ala	Met	Thr	Ile	Ser	Ser	Ile	Leu	Leu	Leu	Ser
			20					25					30		
Thr	Ser	Arg	Phe	Leu	Pro	Gly	Leu	Gln	Arg	Gly	Val	Leu	Leu	Gln	Ser
			35				40					45			
Gly	Gln	Gln	Glu	Leu	Glu	Asp	Glu	Val	Trp	Gln	Arg	Leu	Phe	Ala	Val
			50			55					60				
Gly	Lys	Gln	Phe	Gln	Arg	Ala	Gly	Tyr	Cys	Ala	Gly	His	Cys	Gln	Gly
65					70				75						80
Gln	Gly	Met	Ile	Ile	Gly	Arg	Gln	Gly	Arg	Cys	Ala	Ile	Val	Gln	Trp
				85					90					95	
Asp	Ala	Asn	Ser	Asn	Gly	Gln	Trp	Asp	Ser	Thr	Ala	Ser	Glu	Asn	Asp
			100					105					110		
Ser	Thr	Gly	Phe	Arg	Leu	Glu	Ser	Gly	Ser	Leu	Glu	Thr	Leu	Arg	Gly
		115					120					125			
Ala	Thr	Ser	Cys	Asp	Gly	Lys	Gly	Trp	Asp	Lys	Leu	Thr	Asp	Pro	Asp
		130				135					140				
Arg	Val	Leu	Ile	Glu	Gln	Phe	Met	Val	Thr	Lys	Thr	Asp	Arg	Ala	Gly
145					150					155					160
Phe	Ala	Pro	Val	Ile	Ser	Ile	Glu	Leu	Arg	Ala	Arg	Arg	Lys	Gly	Glu
				165					170					175	
Leu	Thr	Ala	Pro	Phe	Ser	Ala	Arg	His	Thr	Val	Thr	Gly	Phe	Asn	Leu
			180					185					190		

<210> 7789

<211> 617

<212> PRT

<213> Enterobacter cloacae

<400> 7789

Pro	Val	Cys	Ser	Lys	His	Gly	Gly	Asp	Gly	Met	Thr	Met	Gln	Asp	Leu
1				5					10					15	
Leu	Leu	Asp	Ala	Val	Glu	Gln	Arg	Val	Leu	Arg	Gln	Leu	Asp	Val	Gln
			20					25					30		
Phe	Ala	Met	Met	Ile	Ala	Ala	Asp	Gln	Pro	Ala	Val	Met	Leu	Ala	Ala
		35					40					45			
Ala	Leu	Leu	Ser	Lys	Asp	Ala	Gly	Glu	Gly	His	Val	Cys	Leu	Pro	Leu
	50					55				60					
Ser	Arg	Leu	Val	Val	Asp	Glu	Lys	Met	Pro	Pro	Val	Leu	Gln	Ser	Cys
65					70				75						80
Phe	Ala	Leu	Leu	Gly	Asp	Lys	Val	Asp	Trp	Gln	Lys	Ile	Leu	Arg	Glu
				85				90						95	
Ser	Ser	Ala	Val	Gly	Pro	Gly	Asp	Asn	Gln	Ala	Pro	Leu	Ile	Leu	Thr
			100				105						110		
Gly	Glu	Arg	Leu	Tyr	Leu	Asn	Arg	Leu	Trp	Arg	Asn	Glu	Leu	Thr	Val
		115					120					125			
Ala	Arg	Phe	Phe	Ser	Glu	Thr	Asn	Ala	Pro	Leu	Pro	Cys	Asp	Glu	Ala
	130					135					140				
Gln	Leu	Arg	Gln	Thr	Leu	Asp	Arg	Leu	Phe	Asp	Ser	Gly	Glu	Asp	Thr
145					150				155						160

Asp	Trp	Gln	Lys	Val	Ala	Ala	Ala	Val	Ala	Leu	Thr	Arg	Arg	Ile	Ser
			165						170					175	
Val	Ile	Ser	Gly	Gly	Pro	Gly	Thr	Gly	Lys	Thr	Thr	Thr	Val	Ala	Lys
			180					185					190		
Leu	Leu	Ala	Ala	Leu	Ile	Gln	Leu	Ser	Gly	Glu	Gln	Arg	Cys	Arg	Ile
		195					200					205			
Arg	Leu	Ala	Ala	Pro	Thr	Gly	Lys	Ala	Ala	Ala	Arg	Leu	Thr	Glu	Ser
	210					215					220				
Leu	Gly	Gly	Ala	Met	Gln	Gln	Leu	Pro	Leu	Thr	Gln	Glu	Gln	Leu	Ala
225					230					235					240
Leu	Phe	Pro	Gly	Glu	Ala	Ser	Thr	Leu	His	Arg	Leu	Leu	Gly	Ala	Gln
			245						250					255	
Pro	Gly	Ser	Gln	Arg	Leu	Arg	Tyr	His	Ala	Gly	Asn	Pro	Leu	His	Leu
			260					265					270		
Asp	Val	Leu	Val	Val	Asp	Glu	Ala	Ser	Met	Ile	Asp	Leu	Thr	Met	Met
		275					280					285			
Ser	Arg	Leu	Ile	Asp	Ala	Leu	Pro	Pro	His	Ala	Arg	Val	Val	Phe	Leu
	290					295					300				
Gly	Asp	Arg	Asp	Gln	Leu	Ala	Ser	Val	Glu	Ala	Gly	Ala	Val	Leu	Gly
305				310					315						320
Asp	Ile	Cys	Thr	Tyr	Ala	Ser	Tyr	Gly	Tyr	Thr	Ala	Ala	Arg	Ala	Gln
			325					330						335	
Glu	Leu	Ala	Arg	Leu	Thr	Gly	Cys	Ser	Leu	Glu	Pro	Asp	His	Thr	Pro
		340						345					350		
Ile	Ala	Gly	Ala	Leu	Arg	Asp	Ser	Leu	Cys	Leu	Leu	Gln	Lys	Ser	Tyr
	355					360						365			
Arg	Phe	Gly	Ser	Asp	Ser	Gly	Ile	Gly	Gln	Leu	Ala	Ala	Ala	Val	Asn
	370					375					380				
Arg	Gly	Asp	Arg	His	Ala	Thr	Arg	Thr	Val	Phe	Asp	Gly	Thr	Phe	Thr
385				390					395						400
Asp	Ile	Glu	Lys	Lys	Ser	Leu	Gln	Ser	Gly	Glu	Glu	Tyr	Gln	Ala	Met
			405					410						415	
Leu	Glu	Glu	Ala	Leu	Gln	Gly	Tyr	Gln	His	Phe	Leu	Ser	Cys	Val	Gln
		420					425						430		
Gln	Cys	Ser	Gln	Pro	Gly	Gln	Val	Ile	Ala	Ala	Phe	Gly	Glu	Tyr	Gln
	435					440						445			
Leu	Leu	Cys	Ala	Leu	Arg	Glu	Gly	Pro	Phe	Gly	Val	Thr	Gly	Leu	Asn
	450					455				460					
Asp	Arg	Leu	Glu	Gln	Leu	Leu	Val	Gln	Lys	Arg	Lys	Ile	Asn	Arg	Gln
465				470					475						480
Leu	His	Ser	Arg	Trp	Tyr	Glu	Gly	Arg	Pro	Val	Met	Ile	Ser	Arg	Asn
			485					490						495	
Asp	Ser	Ala	Leu	Gly	Leu	Phe	Asn	Gly	Asp	Ile	Gly	Ile	Ala	Leu	Asp
		500					505						510		
Arg	Gly	Asn	Gly	Leu	Arg	Val	Trp	Phe	Gln	Leu	Pro	Asp	Gly	Ser	Val
	515					520						525			
Lys	Ser	Val	Gln	Pro	Ser	Arg	Leu	Pro	Glu	His	Glu	Thr	Ala	Trp	Ala
	530					535					540				
Met	Thr	Val	His	Lys	Ser	Gln	Gly	Ser	Glu	Phe	Asn	His	Ala	Ala	Leu
545				550					555						560
Ile	Leu	Pro	Thr	Gln	Leu	Ser	Pro	Val	Val	Thr	Arg	Glu	Leu	Val	Tyr
			565					570						575	
Thr	Ala	Ile	Thr	Arg	Ala	Arg	Gln	Arg	Leu	Ser	Leu	Tyr	Ala	Asp	Glu
	580						585						590		
Arg	Val	Leu	Ser	Gln	Ala	Ile	Ala	Thr	Arg	Thr	Glu	Arg	Arg	Ser	Gly
	595					600						605			
Leu	Ser	Ala	Ile	Phe	Glu	Ser	Val								
	610					615									

<210> 7790

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 7790

Arg	Gly	Ser	Phe	Arg	Pro	Arg	Gly	Glu	Asp	Leu	Ala	Ser	Thr	Arg	Asn
1				5					10					15	
Trp	Leu	Arg	Tyr	Lys	Leu	Pro	Lys	Arg	Leu	Val	Arg	Trp	Asp	Thr	Lys
			20					25					30		
Pro	Val	Cys	Ile	Gly	Gln	Lys	Gln	Lys	Trp	Phe	Leu	Leu	Gln	Leu	Val
		35					40					45			
Gly	Asn	Asp	Ser	Asp	Ile	Asn	Met	Gln	Thr	Ser	Ser	Thr	Pro	Glu	Phe
	50					55					60				
Asp	Gly	Trp	Arg	Trp	Val	Ser	Tyr	Trp	Tyr	Pro	Val	Arg	Gln	Val	Val
65					70					75				80	
Ser	Phe	Lys	Arg	Asp	Val	Tyr	Arg	Arg	Val	Met	Lys	Glu	Phe	Ala	Ser
				85					90					95	
Val	Val	Met	Gln	Leu	Gln	Glu	Thr	Pro	Pro	Lys	Pro	Gln	Ser	Ala	Pro
			100					105					110		
Ala	Trp	Arg	Arg	Lys	Arg	Gly									
			115					120							

<210> 7791

<211> 753

<212> PRT

<213> Enterobacter cloacae

<400> 7791

Ala	Thr	Gln	Ile	Met	Leu	Thr	Arg	Leu	Arg	Glu	Ile	Val	Glu	Lys	Val
1				5					10					15	
Ala	Ser	Ala	Pro	Arg	Leu	Asn	Glu	Ala	Leu	Asn	Ile	Leu	Val	Thr	Asp
			20					25					30		
Ile	Cys	Leu	Ala	Met	Glu	Thr	Glu	Val	Cys	Ser	Val	Tyr	Leu	Ala	Asp
		35					40					45			
His	Asp	Arg	Arg	Cys	Tyr	Tyr	Leu	Met	Ala	Thr	Arg	Gly	Leu	Lys	Lys
	50					55					60				
Pro	Arg	Gly	Arg	Thr	Val	Thr	Leu	Ala	Phe	Asp	Glu	Gly	Ile	Val	Gly
65					70					75				80	
Leu	Val	Gly	Arg	Leu	Ala	Glu	Pro	Ile	Asn	Leu	Ala	Asp	Ala	Gln	Lys
				85					90					95	
His	Pro	Ser	Phe	Lys	Tyr	Ile	Pro	Ser	Val	Lys	Glu	Glu	Arg	Phe	Arg
			100					105					110		
Ala	Phe	Leu	Gly	Val	Pro	Ile	Ile	Gln	Arg	Arg	Gln	Leu	Leu	Gly	Val
			115					120				125			
Leu	Val	Val	Gln	Gln	Arg	Glu	Leu	Arg	Gln	Tyr	Asp	Glu	Ser	Glu	Glu
			130			135					140				
Ser	Phe	Leu	Val	Thr	Leu	Ala	Thr	Gln	Met	Ala	Ala	Ile	Leu	Ser	Gln
145					150					155				160	
Ser	Gln	Leu	Ala	Ala	Leu	Phe	Gly	Gln	Tyr	Arg	His	Thr	Arg	Ile	Arg
				165					170					175	
Ala	Leu	Pro	Ala	Ser	Pro	Gly	Val	Ala	Ile	Ala	Glu	Gly	Trp	Met	Asp
			180					185					190		
Ala	Thr	Leu	Pro	Leu	Met	Glu	Gln	Val	Tyr	Glu	Ala	Ser	Thr	Leu	Asp
			195				200					205			
Glu	Ala	Leu	Glu	Arg	Glu	Arg	Leu	Thr	Ala	Ala	Leu	Glu	Glu	Ala	Ala
	210					215					220				
Asn	Glu	Phe	Arg	Arg	Tyr	Ser	Lys	Arg	Phe	Ala	Ala	Gly	Ala	Gln	Lys
225					230					235				240	
Glu	Thr	Ala	Ala	Ile	Phe	Asp	Leu	Tyr	Ser	His	Leu	Leu	Ser	Asp	Ala
				245					250					255	
Arg	Leu	Arg	Arg	Glu	Leu	Phe	Ala	Glu	Val	Asp	Lys	Gly	Ser	Val	Ala
			260					265					270		

Glu	Trp	Ala	Val	Lys	Lys	Val	Ile	Glu	Lys	Phe	Ala	Glu	Gln	Phe	Ala		
		275					280					285					
Val	Leu	Thr	Asp	Gly	Tyr	Leu	Lys	Glu	Arg	Ala	Gly	Asp	Leu	Arg	Ala		
	290					295					300						
Leu	Gly	Gln	Arg	Leu	Leu	Phe	His	Leu	Asp	Asp	Thr	Ile	Gln	Gly	Ala		
305					310					315					320		
Asn	Ala	Trp	Pro	Asn	Arg	Phe	Val	Leu	Val	Ala	Asp	Glu	Leu	Ser	Ala		
				325					330					335			
Thr	Thr	Leu	Ala	Glu	Leu	Pro	Gln	Asp	Arg	Leu	Ala	Gly	Val	Val	Val		
			340					345					350				
Arg	Asp	Gly	Ala	Ala	Asn	Ser	His	Ala	Ala	Ile	Met	Val	Arg	Ala	Leu		
		355					360					365					
Gly	Ile	Pro	Thr	Val	Met	Gly	Ala	Asp	Ile	Gln	Pro	Ser	Val	Leu	His		
	370					375					380						
Arg	Arg	Thr	Leu	Val	Val	Asp	Gly	Tyr	Arg	Gly	Glu	Leu	Leu	Val	Asp		
385					390					395					400		
Pro	Glu	Pro	Val	Leu	Leu	Gln	Glu	Tyr	Gln	Arg	Leu	Ile	Ser	Glu	Glu		
				405					410					415			
Asn	Glu	Leu	Ser	Lys	Leu	Ala	Glu	Asp	Asp	Val	Asn	Leu	Pro	Ala	Gln		
			420					425					430				
Leu	Lys	Ser	Gly	Glu	Arg	Val	Lys	Val	Met	Leu	Asn	Ala	Gly	Leu	Ser		
		435					440					445					
Pro	Glu	His	Glu	Glu	Lys	Leu	Gly	Ser	Arg	Ile	Asp	Gly	Ile	Gly	Leu		
	450					455					460						
Tyr	Arg	Thr	Glu	Ile	Pro	Phe	Met	Leu	Gln	Ser	Gly	Phe	Pro	Ser	Glu		
465					470					475					480		
Glu	Glu	Gln	Val	Ala	Gln	Tyr	Gln	Gly	Met	Leu	Gln	Met	Phe	Asn	Asp		
				485				490						495			
Lys	Pro	Val	Thr	Leu	Arg	Thr	Leu	Asp	Val	Gly	Ala	Asp	Lys	Gln	Leu		
			500					505					510				
Pro	Tyr	Met	Pro	Ile	Ser	Glu	Glu	Asn	Pro	Cys	Leu	Gly	Trp	Arg	Gly		
		515					520					525					
Ile	Arg	Ile	Thr	Leu	Asp	Gln	Pro	Glu	Ile	Phe	Leu	Ile	Gln	Val	Arg		
	530					535					540						
Ala	Met	Leu	Arg	Ala	Asn	Ala	Ala	Thr	Gly	Asn	Leu	Ser	Ile	Leu	Leu		
545					550					555					560		
Pro	Met	Val	Thr	Ser	Ile	Asp	Glu	Ile	Asp	Glu	Ala	Arg	Arg	Leu	Ile		
				565					570					575			
Glu	Arg	Ala	Gly	Arg	Glu	Val	Glu	Glu	Met	Ile	Gly	Tyr	Ala	Ile	Pro		
			580					585					590				
Lys	Pro	Arg	Ile	Gly	Val	Met	Leu	Glu	Val	Pro	Ser	Met	Val	Phe	Met		
		595					600					605					
Leu	Pro	Gln	Leu	Ala	Thr	Arg	Val	Asp	Phe	Ile	Ser	Val	Gly	Thr	Asn		
	610					615					620						
Asp	Leu	Thr	Gln	Tyr	Ile	Leu	Ala	Val	Asp	Arg	Asn	Asn	Thr	Arg	Val		
625					630					635					640		
Ala	Ser	Ile	Tyr	Asp	Ser	Leu	His	Pro	Ala	Met	Leu	Arg	Ala	Leu	Ala		
				645					650					655			
Met	Ile	Ala	Arg	Glu	Ala	Glu	Gln	His	Asn	Ile	Asp	Leu	Arg	Leu	Cys		
			660					665					670				
Gly	Glu	Met	Ala	Gly	Asp	Pro	Met	Cys	Val	Ala	Ile	Leu	Ile	Gly	Leu		
		675					680					685					
Gly	Phe	Arg	His	Leu	Ser	Met	Asn	Gly	Arg	Ser	Val	Ala	Arg	Val	Lys		
	690					695					700						
Tyr	Leu	Leu	Arg	His	Ile	Glu	Gln	Asp	Glu	Ala	Arg	Glu	Leu	Ala	Ala		
705					710					715					720		
Arg	Ser	Leu	Glu	Ala	Gln	Leu	Ala	Ala	Glu	Val	Arg	His	Gln	Val	Ala		
				725					730					735			
Ala	Phe	Met	Glu	Arg	Arg	Gly	Met	Gly	Gly	Leu	Ile	Arg	Gly	Gly	Arg		
			740					745					750				

<210> 7792
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 7792

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Ser Ser Gly Leu Thr Leu Ala Pro Phe Leu Leu Phe Leu His Thr Pro
1      5      10      15
Ala Met Lys Asn Glu Gln Gly Phe Thr Leu Ile Glu Thr Leu Ile Ala
20      25      30
Val Ser Leu Ala Val Ile Leu Ser Ala Thr Gly Leu Tyr Gly Trp Asp
35      40      45
Ser Trp Gln Gln Arg Gln Arg Leu Trp Gln Thr Ala Cys Gln Val Arg
50      55      60
Asp Tyr Leu Val Phe Leu Arg Asn Asp Ala Asn Arg His Asn Ser Glu
65      70      75      80
His Arg Ile Ala Leu Tyr Asn Asp Gly Glu Lys Asn Cys Leu Thr Ser
85      90      95
Ser Ala Val Thr Gly Cys Asp Ser Gly Gly Pro Phe Val Met Lys Pro
100     105     110
Met Trp Pro Gly Val Thr Ile Ser Asp Ile Thr Pro Ala Leu Gly Phe
115     120     125
Tyr Gly Leu Arg Asp Thr Ala Trp Ala Gly His Ile Arg Val Gln Ser
130     135     140
Arg Ala Gly Gly Trp Trp Val Ile Val Ser Asn Gly Gly Arg Ile Arg
145     150     155     160
Leu Cys Asn Ala Ala Gly Glu Gly Ala Cys Gln
165     170
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<210> 7793
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 7793

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Gly Lys Tyr Ala Met Ser Val Thr Leu Ser Arg Gln Lys Gly Phe Ser
1      5      10      15
Met Val Glu Val Leu Leu Ala Met Met Leu Leu Val Val Val Thr
20      25      30
Ala Leu Ser Gly Tyr His Arg Ala Leu Ala Ala Arg Tyr Ala Ala Leu
35      40      45
Ser Gln Tyr Arg Gln Leu Trp His His Ala Trp Asn Gln Ser Gln Ile
50      55      60
Ser Thr Leu Thr Leu Pro Pro Gly Trp Gln Val Ser Arg Gly Gln Thr
65      70      75      80
Thr Gln Ser Gly Cys Val Ser Ile Thr Val Thr Leu Ile Ser Pro Met
85      90      95
Gly Arg Gln Gly Ala Leu Thr Arg Leu His Cys Pro Val Ser Arg
100     105     110
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<210> 7794
 <211> 1129
 <212> PRT
 <213> Enterobacter cloacae

<400> 7794

```
Ser Gly Ala Phe Met Leu Arg Val Tyr His Ser Asn Arg Leu Asp Val
1      5      10      15
Leu Glu Ala Leu Met Glu Tyr Ile Val Glu Gln Glu Arg Leu Asp Asp
```

										20							25							30		
Pro	Phe	Glu	Pro	Glu	Met	Val	Leu	Val	Gln	Ser	Thr	Gly	Met	Ala	Gln											
																35										
Trp	Leu	Gln	Met	Ser	Leu	Ser	Gln	Lys	Phe	Gly	Ile	Ala	Ala	Asn	Ile											
																50										
Asp	Phe	Pro	Leu	Pro	Ala	Ser	Phe	Ile	Trp	Glu	Met	Phe	Val	Arg	Val											
65																70										
Leu	Pro	Asp	Ile	Pro	Glu	Gln	Ser	Ala	Phe	Asn	Lys	Gln	Ser	Met	Ala											
																85										
Trp	Lys	Leu	Met	Thr	Leu	Leu	Pro	Asp	Met	Leu	Ala	Arg	Asp	Glu	Phe											
																100										
Ala	Met	Leu	Arg	His	Tyr	Leu	Asn	Asp	Asp	Thr	Asp	Lys	Arg	Lys	Leu											
																115										
Phe	Gln	Leu	Ala	Ser	Arg	Thr	Ala	Asp	Leu	Tyr	Asp	Gln	Tyr	Leu	Val											
																130										
Tyr	Arg	Ala	Asp	Trp	Leu	Ile	Arg	Trp	Glu	Ala	Gly	Glu	Leu	Val	Asp											
145																150										
Gly	Leu	Pro	Glu	Ala	Gln	Ile	Trp	Gln	Ala	Pro	Leu	Trp	Lys	Ala	Leu											
																165										
Val	Glu	His	Thr	Gly	Lys	Leu	Gly	Gln	Pro	Lys	Trp	His	Arg	Ala	Asn											
																180										
Leu	Tyr	Asp	Arg	Phe	Ile	Ser	Ile	Leu	Glu	Asn	Ser	Ala	Glu	Arg	Pro											
																195										
Ala	Arg	Leu	Pro	Ser	Arg	Val	Phe	Ile	Cys	Gly	Ile	Ser	Ala	Leu	Pro											
																210										
Pro	Val	Tyr	Leu	Asn	Ala	Leu	Lys	Ala	Leu	Gly	Lys	His	Thr	Asp	Ile											
225																230										
His	Ile	Leu	Phe	Thr	Asn	Pro	Cys	Arg	His	Tyr	Trp	Gly	Asp	Ile	Gln											
																245										
Asp	Pro	Arg	Trp	Leu	Ser	Arg	Leu	Val	Thr	Arg	Gln	Arg	Lys	Arg	Leu											
																260										
Phe	Glu	Glu	Arg	Ala	Val	Pro	Leu	Phe	Lys	Asp	Ser	Glu	Asn	Ala	Ala											
																275										
Gln	Leu	Phe	Asp	Glu	Glu	Gly	Ile	Gln	Asn	Leu	Pro	Asn	Pro	Leu	Leu											
																290										
Ala	Ser	Trp	Gly	Lys	Leu	Gly	Arg	Asp	Tyr	Ile	Tyr	Leu	Leu	Ser	Asp											
305																310										
Ile	Thr	Ser	Ser	Gly	Glu	Gly	Asp	Val	Asp	Ala	Phe	Ala	Asp	Ile	Thr											
																325										
Pro	Asp	Ser	Leu	His	Asn	Ile	Gln	Leu	Asp	Ile	Leu	Asp	Leu	Glu												
																340										
Asn	Arg	Ala	Val	Ala	Gly	Ile	Thr	Ala	Glu	Glu	Phe	Ala	Arg	Ser	Asp											
																355										
Lys	Lys	Arg	Lys	Leu	Asp	Pro	Asp	Asp	Arg	Ser	Ile	Ala	Ile	His	Val											
																370										
Cys	His	Ser	Pro	Gln	Arg	Glu	Val	Glu	Ile	Leu	His	Asp	Arg	Leu	Leu											
385																390										
Ala	Met	Leu	Gln	Asp	Pro	Thr	Leu	Thr	Pro	Arg	Asp	Ile	Val	Val												
																405										
Met	Val	Ala	Asp	Ile	Asp	Ser	Tyr	Ser	Pro	Phe	Ile	Gln	Ala	Val	Phe											
																420										
Gly	Ser	Ala	Thr	Gly	Asp	Arg	Tyr	Leu	Pro	Tyr	Ala	Ile	Ser	Asp	Arg											
																435										
Arg	Ala	Arg	Gln	Ser	His	Pro	Ala	Leu	Gln	Ala	Phe	Ile	Ser	Leu	Leu											
																450										
Ser	Leu	Pro	Asp	Ser	Arg	Phe	Ile	Ser	Glu	Asp	Val	Leu	Ala	Leu	Leu											
465																470										
Asp	Val	Pro	Val	Leu	Ala	Ala	Arg	Phe	Asn	Ile	Asn	Glu	Glu	Gly	Leu											
																485										
Arg	Tyr	Leu	Arg	Gln	Trp	Val	Asn	Glu	Ser	Gly	Val	Arg	Trp	Gly	Ile											
																500										
																505										
																510										

Asp	Asp	Asp	Asn	Val	Gln	Glu	Phe	Glu	Leu	Pro	Ala	Thr	Gly	Gln	His
		515					520					525			
Thr	Trp	Gln	Phe	Gly	Leu	Thr	Arg	Met	Leu	Leu	Gly	Tyr	Ala	Met	Glu
	530					535					540				
Ser	Ile	His	Gly	Glu	Trp	Asn	Asp	Val	Leu	Pro	Tyr	Asp	Glu	Ser	Ser
545					550					555					560
Gly	Leu	Ile	Ala	Glu	Leu	Val	Gly	His	Leu	Ala	Thr	Leu	Leu	Met	Gln
				565					570					575	
Leu	Asn	Arg	Trp	Arg	Arg	Ala	Leu	Met	Gln	Pro	Arg	Leu	Leu	Glu	Glu
			580					585					590		
Trp	Leu	Pro	Val	Cys	Arg	Glu	Met	Leu	Asn	Asp	Phe	Phe	Leu	Pro	Asp
		595					600					605			
Ser	Glu	Thr	Glu	Ala	Ala	Met	Ala	Leu	Ile	Glu	Lys	Gln	Trp	Gln	Ala
	610					615					620				
Ile	Val	Asp	Glu	Gly	Val	Asn	Ser	His	Tyr	His	Glu	Ala	Val	Pro	Leu
625					630					635					640
Ser	Leu	Leu	Arg	Asp	Glu	Leu	Thr	Gln	Arg	Leu	Asp	Gln	Glu	Arg	Ile
				645					650					655	
Ser	Gln	Arg	Phe	Leu	Ala	Gly	Pro	Val	Asn	Ile	Cys	Thr	Leu	Met	Pro
			660					665					670		
Met	Arg	Ser	Ile	Pro	Phe	Lys	Val	Val	Cys	Leu	Leu	Gly	Met	Asn	Asp
		675					680					685			
Gly	Ile	Tyr	Pro	Arg	Ala	Leu	Pro	Pro	Leu	Gly	Phe	Asp	Leu	Met	Ser
	690					695					700				
Ala	Gln	Pro	Lys	Arg	Gly	Asp	Arg	Ser	Arg	Arg	Asp	Asp	Asp	Arg	Tyr
705					710					715					720
Leu	Phe	Leu	Glu	Ala	Leu	Met	Ser	Ala	Gln	Ser	Arg	Leu	Tyr	Ile	Ser
				725					730					735	
Tyr	Ile	Gly	Arg	Ser	Ile	Gln	Asp	Asn	Ser	Glu	Arg	Phe	Pro	Ser	Val
			740					745					750		
Leu	Val	Gln	Glu	Leu	Val	Asp	Tyr	Ile	Gly	Gln	Ser	His	Tyr	Leu	Pro
		755					760					765			
Gly	Asp	Glu	Ala	Cys	Asn	Cys	Asp	Glu	Ser	Glu	Arg	Arg	Val	Ile	Ala
	770					775					780				
His	Ile	Thr	Cys	His	His	Ser	Arg	Met	Pro	Phe	Asp	Pro	Val	Asn	Tyr
785					790					795					800
Val	Pro	Asp	Glu	Leu	Gln	Ser	Tyr	Ala	Arg	Glu	Trp	Leu	Pro	Ala	Ala
				805					810					815	
Lys	Lys	Ala	Gly	Thr	Pro	Gln	Thr	Asp	Phe	Ile	Gln	Ala	Leu	Glu	Pro
			820					825					830		
Arg	Ala	Ile	Asp	Thr	Leu	Thr	Phe	Glu	Gln	Leu	Gln	Arg	Phe	Trp	Ala
		835					840					845			
His	Pro	Val	Arg	Ala	Phe	Phe	Gln	Gln	Arg	Leu	Gln	Val	Asn	Phe	Arg
	850					855					860				
Ser	Glu	Glu	Ser	Glu	Ile	Pro	Asp	Ala	Glu	Pro	Phe	Ile	Leu	Asp	Gly
865					870					875					880
Leu	Glu	Arg	Phe	Lys	Leu	Asn	Ser	Gln	Leu	Leu	Asn	Ala	Leu	Val	Asp
				885					890					895	
Glu	Glu	Asp	Ala	Ser	Lys	Leu	Phe	Arg	Arg	Tyr	Arg	Ala	Ser	Gly	Leu
			900					905					910		
Leu	Pro	Tyr	Gly	Ala	Phe	Gly	Glu	Ile	Val	Trp	Asp	Ala	Gln	Cys	Glu
		915					920					925			
Glu	Met	Arg	Ala	Leu	Ala	Asp	Arg	Val	Ile	Ala	Cys	Arg	Gln	Pro	Ala
	930					935					940				
Ser	Ser	Ile	Glu	Ile	Asp	Leu	Asp	Cys	Asn	Gly	Met	His	Leu	Ser	Gly
945					950					955					960
Trp	Leu	Thr	His	Val	Gln	Ser	Asp	Gly	Leu	Leu	Arg	Trp	Arg	Pro	Ser
			965						970					975	
Met	Leu	Ser	Val	Ser	His	Gly	Leu	Gln	Leu	Trp	Leu	Glu	His	Leu	Val
			980					985					990		
Tyr	Ser	Ala	Ser	Gly	His	Glu	Gly	Glu	Ser	Arg	Leu	Phe	Val	Arg	Lys

995	1000	1005
Asp Gly Glu Trp Arg Phe Pro Arg Met Glu Pro Glu Gln Ala Leu Met		
1010	1015	1020
Tyr Leu Ser Leu Tyr Ile Glu Gly Tyr Arg Gln Gly Met Asn Lys Pro		
1025	1030	1035
Leu Leu Leu Leu Pro Glu Ser Gly Gly Ala Trp Ile Lys Ala Cys Tyr		
1045	1050	1055
Asp Ala Gln Asn Asp Ala Met Leu Thr Asp Glu Ala Ser Leu Gln Lys		
1060	1065	1070
Ala Arg Ser Lys Phe Leu Gln Ala Tyr Glu Gly Asn Met Met Val Arg		
1075	1080	1085
Gly Glu Gly Asp Asp Val Trp Tyr Gln Arg Leu Trp Arg Thr Leu Glu		
1090	1095	1100
Pro Glu Tyr Phe Asp Ile Ile Thr Gln Glu Ala Gln Arg Tyr Leu Leu		
1105	1110	1115
Pro Leu Tyr Lys Phe Asn Gln Ser		
1125		

<210> 7795
 <211> 1183
 <212> PRT
 <213> Enterobacter cloacae

<400> 7795

Glu Arg Met Thr His Thr Ala Glu Pro Leu Asp Pro Leu Ser Leu Pro		
1	5	10
Leu Gln Gly Glu Arg Leu Ile Glu Ala Ser Ala Gly Thr Gly Lys Thr		
20	25	30
Tyr Thr Ile Ala Ala Leu Tyr Leu Arg Leu Leu Leu Gly Leu Gly Gly		
35	40	45
Asn Ala Ala Phe Ser Arg Pro Leu Ser Val Glu Glu Leu Leu Val Val		
50	55	60
Thr Phe Thr Glu Ala Ala Thr Ala Glu Leu Arg Gly Arg Ile Arg Ser		
65	70	75
Asn Ile His Glu Leu Arg Ile Ala Cys Leu Arg Gln Thr Thr Asp Asn		
85	90	95
Pro Leu Tyr Ala Ser Leu Leu Asp Glu Ile Ala Asp Lys Gln Gln Ala		
100	105	110
Ala Gln Trp Leu Leu Leu Ala Glu Arg Gln Met Asp Glu Ala Ser Val		
115	120	125
Phe Thr Ile His Gly Phe Cys Gln Arg Met Leu Ser Leu Asn Ala Phe		
130	135	140
Glu Ser Gly Met Leu Phe Glu Gln Gln Leu Ile Glu Asp Glu Ser Glu		
145	150	155
Leu Arg Tyr Gln Ala Cys Ala Asp Phe Trp Arg Arg His Cys Tyr Pro		
165	170	175
Leu Gln Arg Asp Ile Ala Glu Ala Val His Ala Leu Trp Lys Gly Pro		
180	185	190
Glu Glu Leu Leu Arg Ala Ile Asp Arg Tyr Leu Gln Gly Glu Ala Pro		
195	200	205
Val Ile Lys Ser Pro Pro Pro Ala Asp Glu Thr Leu Ala Ser Arg His		
210	215	220
Glu Lys Ile Val Ala Lys Ile Ala Ala Leu Lys Gln Lys Trp Asn Glu		
225	230	235
Ser Val Gly Glu Ile Asp Ala Ile Ile Glu Asn Ser Gly Ile Asp Arg		
245	250	255
Arg Lys Phe Asn Arg Gly Asn Gln Gly Lys Trp Ile Glu Lys Ile Ser		
260	265	270
Ala Trp Ala Gln Glu Glu Thr Arg Gly Tyr Gln Leu Pro Asp Ala Leu		
275	280	285
Glu Lys Phe Ser Gln Arg Phe Leu Thr Glu Arg Thr Lys Ala Asp Gly		

290	295	300
Ile Val Pro Glu His	Pro Leu Phe Val Ala	Ile Glu Ala Leu Leu Ala
305	310	315
Glu Pro Leu Thr	Leu Asn Asp Leu Met	Ile Thr Arg Ala Met Thr Glu
	325	330
Ile Arg Gln Ala Val	Ala Arg Glu Lys Arg Arg Arg Gly Glu Leu Gly	335
	340	345
Phe Asp Asp Met Leu Ser Arg	Leu Asp Glu Ala Leu Ser Ser Glu Asn	350
	355	360
Gly Glu Ala Leu Ala Ser	Ala Ile Arg Thr Arg Phe Pro Val Ala Met	365
	370	375
Ile Asp Glu Phe Gln Asp Thr Asp	Pro Gln Gln Tyr Arg Ile Phe Arg	380
385	390	395
Arg Ile Trp Arg Gln Gln Pro Asp Thr	Ala Leu Leu Leu Ile Gly Asp	400
	405	410
Pro Lys Gln Ala Ile Tyr Ala Phe Arg	Gly Ala Asp Ile Phe Thr Tyr	415
	420	425
Met Lys Ala Arg Ser Glu Val Val Ala His Tyr Thr	Leu Asp Thr Asn	430
	435	440
Trp Arg Ser Ala Pro Gly Met Val Glu Ser Val	Asn Ala Leu Phe Ser	445
	450	455
Arg Met Glu Thr Ala Phe Met Phe Lys Glu Ile Pro	Phe Leu Pro Val	460
465	470	475
Lys Ser Ala Pro Lys Asn Ala Ser Leu Arg Phe Glu Val Ser Gly Ala		480
	485	490
Glu Gln Pro Ala Met Thr Phe Trp Leu Leu Glu Glu Glu Gly Tyr Gly		495
	500	505
Val Ala Asp Tyr Gln Ala Ala Met Ala Gln His Cys Ala Ala Gln Ile		510
	515	520
Arg Asp Trp Leu Ser Ala Gly Asn Arg Gly Glu Ala Leu Leu Trp Lys		525
	530	535
Gly Glu Gln Ala Asn Pro Val Lys Ala Ser Asp Ile Thr Val Leu Val		540
545	550	555
Arg Ser Arg Gln Glu Ala Ala Leu Ile Arg Asp Ala Leu Thr Leu Leu		560
	565	570
Asp Ile Pro Ser Val Tyr Leu Ser Asn Arg Asp Ser Val Phe Asp Thr		575
	580	585
Leu Glu Ala Gln Glu Met Leu Trp Leu Leu Gln Ala Val Leu Ala Pro		590
	595	600
Glu Arg Glu Asn Thr Leu Arg Ser Ala Leu Ala Ser Ser Met Leu Gly		605
	610	615
Leu Asn Ala Arg Asp Ile Asp Glu Leu Asn His Asp Glu Asn Ala Trp		620
625	630	635
Asp Ala Val Val Glu Glu Phe Val His Tyr Arg Glu Arg Trp Gln Lys		640
	645	650
Arg Gly Val Met Ala Met Leu Arg Glu Leu Met Thr Arg Arg Gln Ile		655
	660	665
Ala Glu Asn Met Leu Ala Ser Ser Gly Gly Glu Arg Arg Leu Thr Asp		670
	675	680
Ile Leu His Ile Ser Glu Leu Leu Gln Glu Ala Gly Thr Gln Leu Glu		685
	690	695
Ser Glu His Ala Leu Val Arg Trp Leu Ala Gln Gln Ile Ala Asp Pro		700
705	710	715
Asn Ser Asn Ala Ser Ser Gln Gln Met Arg Leu Glu Ser Asp Lys His		720
	725	730
Leu Val Gln Ile Val Thr Ile His Lys Ser Lys Gly Leu Glu Tyr Pro		735
	740	745
Leu Val Trp Leu Pro Phe Ile Ala Asn Tyr Arg Val Gln Asp Gln Ala		750
	755	760
Tyr Tyr His Asp Arg Glu Thr Phe Asp Ala Val Leu Asp Leu Ser Lys		765
770	775	780

Ala Glu Thr Ser Val Glu Leu Ala Glu Ala Glu Arg Leu Ala Glu Asp
 785 790 795 800
 Leu Arg Leu Leu Tyr Val Ala Leu Thr Arg Ser Val Trp His Cys Ser
 805 810 815
 Leu Gly Val Ala Pro Val Phe Arg Arg Gly Glu Lys Thr Gly Glu
 820 825 830
 Ser Asp Phe His Leu Ser Ala Leu Gly Arg Leu Ile Gln His Gly Glu
 835 840 845
 Pro Lys Asp Ala Ala Gly Leu Arg Leu Cys Ile Glu Ser Leu Cys Gly
 850 855 860
 Asp Asp Ile Ala Leu His Ile Pro Ser Leu Pro Asp Asn Ser Arg Trp
 865 870 875 880
 Glu Met Ala Gln Glu Pro Val Thr Asp Leu Asn Ala Arg Gln Ile Thr
 885 890 895
 Arg Val Leu Ala Asp Asp Trp Arg Val Thr Ser Tyr Ser Gly Leu Gln
 900 905 910
 Gln His Gly Gln Ser Ile Ala Gln Asp Leu Met Pro Lys Leu Asp Val
 915 920 925
 Asp Ala Ala Gly Val Gly Asp Val Pro Val Glu Pro Thr Leu Thr Pro
 930 935 940
 His Gln Phe Pro Arg Gly Ala Ser Pro Gly Thr Phe Leu His Ser Leu
 945 950 955 960
 Phe Glu Glu Leu Asp Phe Thr Gln Pro Val Ser Glu Glu Trp Val Leu
 965 970 975
 Lys Met Leu Gln Ser Gly Gly Tyr Asp Ala His Trp Gln Pro Val Leu
 980 985 990
 Thr Asp Trp Ile Asn Ala Ile Leu Gln Ala Pro Leu Thr Ala Gln Gly
 995 1000 1005
 Phe Ser Leu Arg Gln Leu Thr Ala Lys Asn Lys Gln Val Glu Met Glu
 1010 1015 1020
 Phe Tyr Leu Pro Val Ala Gly Pro Leu Lys Ala Asp Ala Leu Asp Ala
 1025 1030 1035 1040
 Leu Ile Arg Gln Tyr Asp Pro Leu Ser Ala Gly Cys Pro Pro Leu Asn
 1045 1050 1055
 Phe Arg Gln Val Gln Gly Met Leu Lys Gly Phe Ile Asp Leu Val Phe
 1060 1065 1070
 Arg His Glu Gly Arg Tyr Tyr Leu Leu Asp Tyr Lys Ser Asn Trp Leu
 1075 1080 1085
 Gly Glu Asn Ser Ala Ala Tyr Thr Gln Gln Ala Met Ala Ala Met
 1090 1095 1100
 Gln Met His Arg Tyr Asp Leu Gln Tyr Gln Leu Tyr Thr Leu Ala Leu
 1105 1110 1115 1120
 His Arg Tyr Leu Arg His Arg Ile Ala Asp Tyr Arg Tyr Asp Asp His
 1125 1130 1135
 Phe Gly Gly Val Ile Tyr Leu Phe Leu Arg Gly Val Asp Ala Ala Asp
 1140 1145 1150
 Pro Arg Ser Gly Ile Phe Ser Thr Arg Pro Asp Ala Glu Leu Ile Asn
 1155 1160 1165
 Lys Met Asp Asn Leu Phe Ala Ala Asn Thr Glu Glu Met Ala
 1170 1175 1180

<210> 7796

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 7796

Thr Phe Thr Lys Gly Cys Ile Met Val Lys Glu Arg Arg Thr Glu Leu
 1 5 10 15
 Val Gln Gly Phe Arg His Ser Val Pro Tyr Ile Asn Thr His Arg Gly
 20 25 30

Lys Thr Phe Val Ile Met Leu Gly Gly Glu Ala Ile Glu His Glu Asn
 35 40 45
 Phe Ser Ser Ile Val Asn Asp Ile Gly Leu Leu His Ser Leu Gly Ile
 50 55 60
 Arg Leu Val Val Val Tyr Gly Ala Arg Pro Gln Ile Glu Ala Asn Leu
 65 70 75 80
 Ala Ala His His His Glu Pro Ile Tyr His Lys His Thr Arg Val Thr
 85 90 95
 Asp Ala Lys Thr Leu Glu Leu Val Lys Gln Ala Ala Gly Leu Leu Gln
 100 105 110
 Leu Asp Ile Thr Ala Arg Leu Ser Met Ser Leu Asn Asn Thr Pro Leu
 115 120 125
 Gln Gly Ala His Ile Asn Val Ser Gly Asn Phe Ile Ile Ala Gln
 130 135 140
 Pro Leu Gly Val Asp Asp Gly Val Asp Tyr Cys His Ser Gly Arg Ile
 145 150 155 160
 Arg Arg Ile Asp Glu Asp Ala Ile His Arg Gln Leu Asp Asn Gly Ala
 165 170 175
 Ile Val Leu Met Gly Pro Val Ala Val Ser Val Thr Gly Glu Ser Phe
 180 185 190
 Asn Leu Thr Ser Glu Glu Ile Ala Thr Gln Leu Ala Ile Lys Leu Lys
 195 200 205
 Ala Glu Lys Met Ile Gly Phe Cys Ser Ser Gln Gly Val Val Asn Asp
 210 215 220
 Glu Gly Val Ile Val Pro Glu Leu Phe Pro Asn Glu Ala Gln Ala Arg
 225 230 235 240
 Val Glu Ala Leu Glu Ala Glu Gly Asp Tyr Tyr Ser Gly Thr Val Arg
 245 250 255
 Phe Leu Arg Gly Ala Val Lys Ala Cys Arg Ser Gly Val Arg Arg Ser
 260 265 270
 His Leu Ile Ser Tyr Gln Glu Asp Gly Ala Leu Leu Gln Glu Leu Phe
 275 280 285
 Ser Arg Asp Gly Ile Gly Thr Gln Ile Val Met Glu Ser Ala Glu Gln
 290 295 300
 Ile Arg Arg Ala Thr Ile Asn Asp Ile Gly Gly Ile Leu Glu Leu Ile
 305 310 315 320
 Arg Pro Leu Glu Gln Gly Ile Leu Val Arg Arg Ser Arg Glu Gln
 325 330 335
 Leu Glu Met Glu Ile Asp Lys Phe Thr Ile Ile Gln Arg Asp Asn Leu
 340 345 350
 Thr Ile Ala Cys Ala Ala Leu Tyr Pro Phe Pro Glu Glu Gln Ile Gly
 355 360 365
 Glu Met Ala Cys Val Ala Val His Pro Asp Tyr Arg Ser Ser Ser Arg
 370 375 380
 Gly Glu Leu Leu Leu Glu Arg Val Ala Ala Gln Ala Arg Gln Met Gly
 385 390 395 400
 Leu Ser Lys Leu Phe Val Leu Thr Thr Arg Ser Ile His Trp Phe Gln
 405 410 415
 Glu Arg Gly Phe Thr Pro Val Asp Ile Asp Ser Leu Pro Glu Ser Lys
 420 425 430
 Lys Glu Met Tyr Asn Tyr Gln Arg Arg Ser Lys Val Leu Met Ala Asp
 435 440 445
 Leu Gly
 450

<210> 7797

<211> 242

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(18)

<400> 7797

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Ser Ser Asp Gly Asp Leu Arg Tyr Leu Ser Phe Ile Pro Leu Thr Glu
1      5      10      15
Leu Xaa Met Gln Tyr Pro Ile Asn Glu Met Phe Gln Thr Leu Gln Gly
20      25      30
Glu Gly Tyr Phe Thr Gly Val Pro Ala Ile Phe Ile Arg Leu Gln Gly
35      40      45
Cys Pro Val Gly Cys Ala Trp Cys Asp Thr Lys His Thr Trp Asp Lys
50      55      60
Leu Ala Asp Arg Glu Val Ser Leu Phe Ser Ile Leu Ala Lys Thr Lys
65      70      75      80
Glu Ser Asp Lys Trp Gly Ala Gly Ser Ala Glu Asp Leu Leu Ala Ile
85      90      95
Ile Gly Arg Gln Gly Trp Thr Ala Arg His Val Val Ile Thr Gly Gly
100     105     110
Glu Pro Cys Ile His Asp Leu Met Pro Leu Thr Glu Leu Leu Glu Lys
115     120     125
Asn Gly Tyr Ser Cys Gln Ile Glu Thr Ser Gly Thr His Glu Val Arg
130     135     140
Cys Ser His Ser Thr Trp Val Thr Val Ser Pro Lys Val Asn Met Arg
145     150     155     160
Gly Gly Tyr Asp Val Leu Ser Gln Ala Leu Glu Arg Ala Asp Glu Ile
165     170     175
Lys His Pro Val Gly Arg Val Arg Asp Ile Glu Ala Leu Asp Glu Leu
180     185     190
Leu Ala Thr Leu Thr Asp Glu Lys Gln Arg Val Ile Ala Leu Gln Pro
195     200     205
Ile Ser Gln Lys Asp Asp Ala Thr Arg Leu Cys Ile Glu Thr Cys Ile
210     215     220
Ala Arg Asn Trp Arg Leu Ser Met Gln Thr His Lys Tyr Leu Asn Ile
225     230     235     240
Ala

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<210> 7798

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 7798

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Ala Ala Arg Arg Ala Pro Leu Ser Ala Arg Cys Leu Leu Met Ser Glu
1      5      10      15
Lys His Pro Gly Pro Leu Val Val Glu Gly Lys Leu Ser Asp Ala Glu
20      25      30
Arg Met Lys Val Glu Ser Asn Tyr Leu Arg Gly Thr Ile Ala Glu Asp
35      40      45
Leu Asn Asp Gly Leu Thr Gly Gly Phe Lys Gly Asp Asn Phe Leu Leu
50      55      60
Ile Arg Phe His Gly Met Tyr Gln Gln Asp Asp Arg Asp Ile Arg Ala
65      70      75      80
Glu Arg Ala Glu Gln Lys Leu Glu Pro Arg His Ala Met Leu Leu Arg
85      90      95
Cys Arg Leu Pro Gly Gly Ile Ile Thr Lys Gln Trp Gln Ala Ile
100     105     110
Asp Lys Phe Ala His Asp Asn Thr Ile Tyr Gly Ser Ile Arg Leu Thr
115     120     125
Asn Arg Gln Thr Phe Gln Phe His Gly Ile Leu Lys Lys Asn Val Lys
130     135     140

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Pro Val His Gln Met Leu His Ser Val Gly Leu Asp Ala Leu Ala Thr
 145 150 155 160
 Ala Asn Asp Met Asn Arg Asn Val Leu Cys Thr Ser Asn Pro Tyr Glu
 165 170 175
 Ser Glu Leu His Ala Glu Ala Tyr Glu Trp Ala Lys Lys Ile Ser Glu
 180 185 190
 His Leu Leu Pro Arg Thr Arg Ala Tyr Ala Glu Ile Trp Leu Asp Gln
 195 200 205
 Glu Lys Val Ala Thr Thr Asp Glu Glu Pro Ile Leu Gly Gln Thr Tyr
 210 215 220
 Leu Pro Arg Lys Phe Lys Thr Thr Val Val Ile Pro Pro Gln Asn Asp
 225 230 235 240
 Ile Asp Leu His Ala Asn Asp Met Asn Phe Val Ala Ile Ala Glu Asn
 245 250 255
 Gly Lys Leu Val Gly Phe Asn Leu Leu Val Gly Gly Gly Leu Ser Ile
 260 265 270
 Glu His Gly Asn Lys Lys Thr Tyr Ala Arg Thr Ala Ser Glu Phe Gly
 275 280 285
 Phe Leu Pro Leu Glu His Thr Leu Ala Val Ala Glu Ala Val Val Thr
 290 295 300
 Thr Gln Arg Asp Trp Gly Asn Arg Thr Asp Arg Lys Asn Ala Lys Thr
 305 310 315 320
 Lys Tyr Thr Leu Glu Arg Val Gly Val Glu Thr Phe Lys Glu Glu Val
 325 330 335
 Glu Arg Arg Ala Gly Ile Lys Phe Glu Pro Ile Arg Pro Tyr Glu Phe
 340 345 350
 Thr Gly Arg Gly Asp Arg Ile Gly Trp Val Lys Gly Ile Asp Asn Lys
 355 360 365
 Trp His Leu Thr Leu Phe Ile Glu Asn Gly Arg Ile Leu Asp Tyr Pro
 370 375 380
 Gly Arg Pro Leu Lys Thr Gly Leu Leu Glu Ile Ala Lys Ile His Lys
 385 390 395 400
 Gly Glu Phe Arg Ile Thr Ala Asn Gln Asn Leu Ile Val Ala Ser Val
 405 410 415
 Pro Glu Ser Glu Lys Ala Arg Ile Glu Glu Leu Ala Arg Glu His Gly
 420 425 430
 Leu Met Asn Ala Val Ser Val Gln Arg Glu Asn Ser Met Ala Cys Val
 435 440 445
 Ser Phe Pro Thr Cys Pro Leu Ala Met Ala Glu Ala Glu Arg Phe Leu
 450 455 460
 Pro Ser Phe Thr Asp Lys Val Glu Ala Ile Leu Glu Lys His Gly Ile
 465 470 475 480
 Pro Asp Glu His Ile Val Met Arg Val Thr Gly Cys Pro Asn Gly Cys
 485 490 495
 Gly Arg Ala Met Leu Ala Glu Leu Gly Leu Val Gly Lys Ala Pro Gly
 500 505 510
 Arg Tyr Asn Leu His Leu Gly Gly Asn Arg Ile Gly Thr Arg Ile Pro
 515 520 525
 Arg Met Phe Arg Glu Asn Ile Thr Glu Pro Glu Ile Leu Asp Ser Leu
 530 535 540
 Asp Val Leu Ile Gly Arg Trp Ala Lys Glu Arg Glu Ala Gly Glu Gly
 545 550 555 560
 Phe Gly Asp Phe Thr Val Arg Ala Gly Ile Ile Arg Pro Val Leu Asp
 565 570 575
 Pro Ala Arg Asp Phe Trp Glu
 580

<210> 7799

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7799

Pro Arg Glu Val Ile Met Ser Val Leu Asp Leu Asn Ala Leu Asn Ala
 1 5 10 15
 Leu Pro Lys Val Glu Arg Ile Leu Ala Leu Ala Glu Thr Asn Ala Gln
 20 25 30
 Leu Glu Lys Leu Asp Ala Glu Gly Arg Val Ala Trp Ala Leu Glu Asn
 35 40 45
 Leu Pro Gly Asp Tyr Val Leu Ser Ser Ser Phe Gly Ile Gln Ala Ala
 50 55 60
 Val Ser Leu His Leu Val Asn Gln Ile Arg Pro Asp Ile Pro Val Ile
 65 70 75 80
 Leu Thr Asp Thr Gly Tyr Leu Phe Pro Glu Thr Tyr Gln Phe Ile Asp
 85 90 95
 Glu Leu Thr Asp Lys Leu Arg Leu Asn Leu Lys Val Tyr Arg Ala Thr
 100 105 110
 Glu Ser Ala Ala Trp Gln Glu Ala Arg Tyr Gly Lys Leu Trp Glu Gln
 115 120 125
 Gly Val Glu Gly Ile Glu Lys Tyr Asn Glu Ile Asn Lys Val Glu Pro
 130 135 140
 Met Asn Arg Ala Leu Lys Glu Leu Asn Ala Gln Thr Trp Phe Ala Gly
 145 150 155 160
 Leu Arg Arg Glu Gln Ser Gly Ser Arg Ala Thr Leu Pro Val Leu Ala
 165 170 175
 Val Gln Arg Gly Val Phe Lys Val Leu Pro Ile Ile Asp Trp Asp Asn
 180 185 190
 Arg Thr Val Tyr Gln Tyr Leu Gln Lys His Gly Leu Lys Tyr His Pro
 195 200 205
 Leu Trp Asp Gln Gly Tyr Leu Ser Val Gly Asp Thr His Thr Thr Arg
 210 215 220
 Lys Trp Glu Pro Gly Met Ala Glu Glu Glu Thr Arg Phe Phe Gly Leu
 225 230 235 240
 Lys Arg Glu Cys Gly Leu His Glu Gly
 245 250

<210> 7800

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 7800

Asn Pro Ala Val Glu Ser Ser Gly Lys Leu Trp Asp Asp Asp Ala Val
 1 5 10 15
 Phe Ser Gly Gly Arg Met Gly Lys Leu Thr Leu Leu Leu Ala Leu
 20 25 30
 Leu Val Trp Leu Gln Tyr Ser Leu Trp Phe Gly Lys Asn Gly Leu His
 35 40 45
 Asp Tyr Ser Arg Val Ser Asp Asp Val Ala Ala Gln Gln Ala Thr Asn
 50 55 60
 Ala Lys Leu Lys Ala Arg Asn Asp Gln Leu Phe Ala Glu Ile Asp Asp
 65 70 75 80
 Leu Asn Gly Gly Gln Glu Ala Ile Glu Glu Arg Ala Arg Asn Glu Leu
 85 90 95
 Ser Met Thr Lys Pro Gly Glu Thr Phe Tyr Arg Leu Val Pro Asp Ala
 100 105 110
 Ser Lys Arg Asn Gln Gly Ser Ala Gln Asn Asn Arg
 115 120 125

<210> 7801

<211> 186

<212> PRT

<213> Enterobacter cloacae

<400> 7801

Tyr Lys Ser Asp Ala Pro Gly Arg Leu Thr Ala Arg Gly Ile Leu Ser
 1 5 10 15
 Tyr Pro Tyr Asp Pro Ser Gly Glu Gly Ile Met Arg Ile Gly His Gly
 20 25 30
 Phe Asp Val His Ala Phe Gly Gly Val Gly Pro Ile Ile Ile Gly Gly
 35 40 45
 Val Arg Ile Pro Tyr Glu Lys Gly Leu Leu Ala His Ser Asp Gly Asp
 50 55 60
 Val Ala Leu His Ala Leu Thr Asp Ala Leu Leu Gly Ala Ala Ala Leu
 65 70 75 80
 Gly Asp Ile Gly Lys Leu Phe Pro Asp Thr Asp Pro Ala Phe Lys Gly
 85 90 95
 Ala Asp Ser Arg Glu Leu Leu Arg Glu Ala Trp Arg Arg Ile Gln Ala
 100 105 110
 Lys Gly Tyr Thr Leu Gly Asn Val Asp Val Thr Ile Ile Ala Gln Ala
 115 120 125
 Pro Lys Met Leu Pro His Ile Pro Gln Met Arg Val Phe Ile Ala Glu
 130 135 140
 Asp Leu Gly Cys His Met Asp Asp Val Asn Val Lys Ala Thr Thr Thr
 145 150 155 160
 Glu Lys Leu Gly Phe Thr Gly Arg Gly Glu Gly Ile Ala Cys Glu Ala
 165 170 175
 Val Ala Leu Leu Val Lys Ala Ala Lys
 180 185

<210> 7802

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 7802

Pro Ser Ser Tyr Ala Ser Gly Cys Arg Gln Val Ala Leu Pro Pro Val
 1 5 10 15
 Leu Ser Gly Asn Leu Ser Thr Arg Arg Val Ile Met Arg Ile Leu Leu
 20 25 30
 Ser Asn Asp Asp Gly Ile His Ala Pro Gly Ile Gln Thr Leu Ala Lys
 35 40 45
 His Leu Arg Glu Phe Ala Asp Val Gln Val Val Ala Pro Asp Arg Asn
 50 55 60
 Arg Ser Gly Ala Ser Asn Ser Leu Thr Leu Glu Ser Ser Leu Arg Thr
 65 70 75 80
 Phe Thr Phe Glu Asn Gly Asp Ile Ala Val Gln Met Gly Thr Pro Thr
 85 90 95
 Asp Cys Val Phe Leu Gly Val Asn Ala Leu Met Arg Pro Arg Pro Asp
 100 105 110
 Val Val Val Ser Gly Ile Asn Ala Gly Pro Asn Leu Gly Asp Asp Val
 115 120 125
 Ile Tyr Ser Gly Thr Val Ala Ala Ala Met Glu Gly Arg His Leu Gly
 130 135 140
 Phe Pro Ala Leu Ala Val Ser Leu Asn Gly His Thr His Tyr Asp Thr
 145 150 155 160
 Ala Ala Ala Val Thr Cys Ser Ile Leu Arg Ala Leu Gly Arg Glu Pro
 165 170 175
 Leu Arg Thr Gly Arg Ile Leu Asn Ile Asn Val Pro Asp Leu Pro Leu
 180 185 190
 Asp Glu Ile Lys Gly Ile Arg Val Thr Arg Cys Gly Ser Arg His Pro
 195 200 205
 Ala Asp Gln Val Ile Pro Gln Gln Asp Pro Arg Gly Asn Thr Leu Tyr

210		215		220
Trp Ile Gly Pro Pro Gly Asp Lys Cys Asp Ala Gly Pro Asp Thr Asp				
225		230		235
Phe Ala Ala Val Asp Glu Gly Tyr Val Ser Val Thr Pro Leu His Val				
	245		250	
Asp Leu Thr Ala Tyr Ser Ala His Asp Val Val Ser Asp Trp Leu Asp				
	260		265	270
Arg Val Gly Val Asn Ala Gln Trp				
	275		280	

<210> 7803
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (29)

<220>
 <221> UNSURE
 <222> (53)

<220>
 <221> UNSURE
 <222> (67)

<400> 7803
Arg Gln Ile Pro Gly Cys Trp Lys Leu Ala Pro Val Gln Gly Ile Arg
1 5 10 15
Pro Arg Ser Trp Pro Thr Leu Cys Thr Met Ser Val Xaa Val Glu Arg
20 25 30
Ile Lys Gly Leu Gln Trp Gln Ala Arg Arg Arg Leu Lys Gln Leu Asp
35 40 45
Leu His Lys Phe Xaa Leu Gln Pro Pro Arg Ala Trp Lys Asp His Ala
50 55 60
Trp Val Xaa
65

<210> 7804
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (204)

<400> 7804
Arg Gly Ser Gly His Leu Trp Pro Ala Arg His His Tyr Gln Lys Arg
1 5 10 15
Ser Gly Arg Asp Leu Ile Val Met Lys Thr Val Leu Asp Asn Leu Lys
20 25 30
Gly Lys Leu Val Val Ser Cys Gln Ala Leu Glu Asn Glu Pro Leu His
35 40 45
Ser Pro Phe Ile Met Ser Arg Met Ala Leu Ala Ala Gln Gly Gly
50 55 60
Ala Ala Ala Ile Arg Ala Asn Ser Val Val Asp Ile Glu Ala Ile Lys
65 70 75 80
Gly Leu Val Ser Leu Pro Val Ile Gly Ile Ile Lys Arg Asp Tyr Pro
85 90 95

Asp Ser Glu Val Phe Ile Thr Ala Thr Leu Lys Glu Val Asp Glu Leu
 100 105 110
 Met Ala Val Ala Pro Glu Ile Val Ala Leu Asp Ala Thr Ala Arg Lys
 115 120 125
 Arg Pro Gly Gly Val Ser Leu Asp Met Leu Ile Ala Gln Ile Arg Thr
 130 135 140
 Arg Tyr Pro Ser Leu Leu Leu Met Ala Asp Ile Ala Thr Val Gln Glu
 145 150 155 160
 Ala Val Thr Ala Gln Ala Leu Gly Phe Asp Cys Val Gly Thr Thr Leu
 165 170 175
 Tyr Gly Tyr Thr Ala Glu Thr Ala Gly His Ser Leu Pro Glu Asn Asp
 180 185 190
 Cys Ala Phe Leu Lys Glu Leu Arg Ser Ala Val Xaa Ile Pro Gly Asp
 195 200 205
 Cys Arg Lys Val Thr
 210

<210> 7805

<211> 604

<212> PRT

<213> *Enterobacter cloacae*

<400> 7805

Arg Arg Met Thr Thr Gln Ala Pro Pro Ser Asn Leu Leu Pro Leu Asn
 1 5 10 15
 Pro Glu Gln Leu Ala Arg Leu Gln Ala Ala Thr Ser Asp Phe Ser Pro
 20 25 30
 Thr Gln Leu Ala Trp Val Ser Gly Tyr Phe Trp Gly Met Leu Asn Gln
 35 40 45
 Gln Pro Gly Ala Val Ala Gly Val Pro Pro Thr Ala Val Glu Ile Pro
 50 55 60
 Ala Ile Thr Leu Ile Ser Ala Ser Gln Thr Gly Asn Ala Arg Arg Val
 65 70 75 80
 Ala Glu Ala Leu Arg Asp Asp Leu Leu Ala Ala Lys Leu Asn Val Asn
 85 90 95
 Leu Val Asn Ala Gly Asp Tyr Lys Phe Lys Gln Ile Ala Ser Glu Lys
 100 105 110
 Leu Leu Val Val Val Ala Ser Thr Gln Gly Glu Gly Glu Pro Ala Glu
 115 120 125
 Glu Ala Val Ala Leu His Lys Phe Leu Phe Ser Lys Lys Ala Pro Lys
 130 135 140
 Leu Glu Gly Thr Ala Phe Ala Val Phe Gly Leu Gly Asp Thr Ser Tyr
 145 150 155 160
 Glu Phe Phe Cys Gln Ser Gly Lys Asp Phe Asp Ser Lys Leu Ala Glu
 165 170 175
 Leu Gly Ala Glu Arg Leu Leu Asp Arg Val Asp Ala Asp Val Glu Tyr
 180 185 190
 Gln Ala Ala Ala Glu Trp Arg Ala Arg Ile Val Glu Val Leu Lys
 195 200 205
 Ala Arg Val Pro Lys Glu Thr Pro Ala Gln Ala Ala Val Thr Ala Ala
 210 215 220
 Gly Thr Val Asn Glu Ile His Thr Ser Pro Tyr Thr Lys Glu Ala Pro
 225 230 235 240
 Leu Thr Ala Ser Leu Ser Val Asn Gln Lys Ile Thr Gly Arg Asp Ser
 245 250 255
 Glu Lys Asp Val Arg His Ile Glu Ile Asp Leu Gly Asp Ser Gly Leu
 260 265 270
 Arg Tyr Gln Pro Gly Asp Ala Leu Gly Val Trp Tyr Gln Asn Asp Pro
 275 280 285
 Ala Leu Val Lys Glu Leu Val Glu Leu Leu Trp Leu Lys Gly Thr Glu
 290 295 300

Pro Val Gln Val Glu Gly Lys Thr Leu Pro Leu Ser Glu Ala Leu Gln
 305 310 315 320
 Trp His Phe Glu Leu Thr Val Asn Thr Ala Asn Ile Val Glu Asn Tyr
 325 330 335
 Ala Thr Leu Thr Arg Ser Glu Ser Leu Pro Leu Val Gly Asp Lys
 340 345 350
 Ala Lys Leu Gln Gln Tyr Ala Ala Thr Thr Pro Ile Val Asp Met Val
 355 360 365
 Arg Phe Ser Pro Ala Gln Leu Asp Ala Asp Ala Leu Ile Gly Leu Leu
 370 375 380
 Arg Pro Leu Thr Pro Arg Leu Tyr Ser Ile Ala Ser Ser Gln Ala Glu
 385 390 395 400
 Val Glu Asn Glu Val His Ile Thr Val Gly Val Val Arg Tyr Asp Ile
 405 410 415
 Glu Gly Arg Ala Arg Ala Gly Gly Ala Ser Gly Phe Leu Ala Asp Arg
 420 425 430
 Val Glu Glu Glu Gly Glu Val Arg Val Phe Ile Glu His Asn Asp Asn
 435 440 445
 Phe Arg Leu Pro Ala Asn Pro Glu Thr Pro Val Ile Met Ile Gly Pro
 450 455 460
 Gly Thr Gly Ile Ala Pro Phe Arg Ala Phe Met Gln Gln Arg Ala Ala
 465 470 475 480
 Asp Glu Ala Pro Gly Lys Asn Trp Leu Phe Phe Gly Asn Pro His Phe
 485 490 495
 Thr Glu Asp Phe Leu Tyr Gln Val Glu Trp Gln Arg Tyr Val Lys Glu
 500 505 510
 Gly Val Leu Thr Arg Ile Asp Leu Ala Trp Ser Arg Asp Gln Lys Glu
 515 520 525
 Lys Val Tyr Val Gln Asp Lys Leu Arg Glu Gln Gly Ala Glu Leu Trp
 530 535 540
 Arg Trp Ile Asn Asp Gly Ala His Ile Tyr Val Cys Gly Asp Ala Asn
 545 550 555 560
 Arg Met Ala Lys Asp Val Glu Gln Ala Leu Leu Glu Val Ile Ala Glu
 565 570 575
 Phe Gly Gly Met Asp Ala Glu Thr Ala Asp Glu Phe Leu Ser Glu Leu
 580 585 590
 Arg Val Glu Arg Arg Tyr Gln Arg Asp Val Tyr
 595 600

<210> 7806

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7806

Ala Leu Pro Ala Leu Gly Arg Thr Arg Ser Ala Gly Arg Gln Val Met
 1 5 10 15
 Ala Ala His Asp Glu Asn Val Val Trp His Pro His Pro Val Thr Val
 20 25 30
 Ala Gln Arg Glu Gln Leu His Gly His Arg Gly Val Val Leu Trp Phe
 35 40 45
 Thr Gly Leu Ser Gly Ser Gly Lys Ser Thr Val Ala Gly Ala Leu Glu
 50 55 60
 Glu Ala Leu His Gln Gln Gly Val Ser Thr Tyr Leu Leu Asp Gly Asp
 65 70 75 80
 Asn Val Arg His Gly Leu Cys Ser Asp Leu Gly Phe Ser Asp Glu Asp
 85 90 95
 Arg Lys Glu Asn Ile Arg Arg Val Gly Glu Val Ala Ser Leu Met Ala
 100 105 110
 Asp Ala Gly Leu Val Val Leu Thr Ala Phe Ile Ser Pro His Arg Ala
 115 120 125

Glu	Arg	Gln	Met	Val	Arg	Glu	Arg	Val	Gly	Gln	Asn	Arg	Phe	Ile	Glu
	130					135					140				
Val	Phe	Val	Asp	Thr	Pro	Leu	Ala	Ile	Cys	Glu	Ala	Arg	Asp	Leu	Lys
145					150					155					160
Gly	Leu	Tyr	Lys	Lys	Ala	Arg	Ala	Gly	Glu	Leu	Arg	Asn	Phe	Thr	Gly
			165						170					175	
Ile	Asp	Ser	Val	Tyr	Glu	Ala	Pro	Glu	Ser	Pro	Glu	Ile	His	Leu	Glu
			180					185					190		
Gly	Gln	Gln	Leu	Val	Thr	Asn	Leu	Val	Ser	Gln	Leu	Leu	Asp	Leu	Leu
		195				200						205			
Arg	Arg	Asp	Asp	Ile	Ile	Arg	Ser								
	210					215									

<210> 7807

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7807

Leu	Ser	Arg	Ala	Lys	Arg	Phe	Ile	Ala	Trp	Phe	Arg	Met	Arg	Leu	Asn
1				5					10					15	
Ala	Ile	Arg	Ala	Pro	His	Lys	Thr	Ile	Asp	Asn	Gln	Ala	Gln	Asp	Tyr
			20					25					30		
Asp	Met	Ala	Ala	Thr	Phe	Ser	Asp	Val	Cys	Ala	Val	Val	Pro	Ala	Ala
		35					40					45			
Gly	Phe	Gly	Arg	Arg	Met	Gln	Thr	Glu	Cys	Pro	Lys	Gln	Tyr	Leu	Ser
	50					55					60				
Ile	Gly	Asp	Lys	Thr	Ile	Leu	Glu	His	Ala	Val	Ala	Ala	Leu	Leu	Ala
65					70					75					80
His	Ser	Arg	Val	Lys	Arg	Val	Val	Ile	Ala	Ile	Ser	Pro	Gly	Asp	Ala
				85					90					95	
Leu	Phe	Ala	Gln	Leu	Pro	Leu	Ala	Asn	His	Pro	Gln	Ile	Thr	Val	Val
			100					105					110		
Asp	Gly	Gly	Ala	Glu	Arg	Ala	Asp	Ser	Val	Leu	Ala	Gly	Ile	Gln	Ala
		115					120					125			
Ala	Gly	Asn	Ala	Gln	Trp	Val	Leu	Val	His	Asp	Ala	Ala	Arg	Pro	Cys
	130					135					140				
Leu	His	His	Asp	Asp	Leu	Ser	Arg	Leu	Leu	Ala	Leu	Ser	Glu	Thr	Ser
145					150					155					160
Asn	Val	Gly	Gly	Ile	Leu	Ala	Ala	Pro	Val	Arg	Asp	Thr	Met	Lys	Arg
				165					170					175	
Ala	Glu	Pro	Gly	Lys	Pro	Ala	Ile	Ala	His	Thr	Val	Glu	Arg	Val	Asp
			180					185						190	
Leu	Trp	His	Ala	Leu	Thr	Pro	Gln	Phe	Phe	Pro	Arg	Glu	Leu	Leu	His
		195					200					205			
Asp	Cys	Leu	Thr	Arg	Ala	Leu	Lys	Glu	Gly	Ala	Thr	Ile	Thr	Asp	Glu
	210					215					220				
Ala	Ser	Ala	Leu	Glu	Tyr	Cys	Gly	Phe	His	Pro	Thr	Leu	Val	Glu	Gly
225					230					235					240
Arg	Ala	Asp	Asn	Ile	Lys	Val	Thr	Arg	Pro	Glu	Asp	Leu	Gln	Leu	Ala
			245						250					255	
Glu	Phe	Tyr	Leu	Thr	Arg	Thr	Thr	Pro	Gln	Glu	Lys	Ala			
			260					265					270		

<210> 7808

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 7808

Glu	Lys	Glu	Ala	Leu	Ala	Asp	Glu	Asp	Thr	Leu	Pro	Gln	Ser	Glu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15									
Ala	Ala	Ala	Val	Ile	Ala	Gly	Leu	Gly	Gly	Lys	Asp	Asn	Leu	Asp	Asp
		20						25					30		
Val	Asp	Cys	Cys	Ala	Thr	Arg	Leu	Arg	Val	Thr	Val	Lys	Asp	Gly	Ser
		35					40					45			
Lys	Val	Asn	Glu	Ser	Ala	Leu	Lys	Ala	Thr	Gly	Ala	Arg	Gly	Val	Ile
		50				55					60				
Val	Arg	Gly	Asn	Gly	Val	Gln	Val	Ile	Tyr	Gly	Pro	His	Val	Thr	Ile
65					70					75					80
Ile	Lys	Asn	Glu	Val	Glu	Glu	Ile	Leu	Ser						
				85					90						

<210> 7809

<211> 799

<212> PRT

<213> Enterobacter cloacae

<400> 7809

Gln	Lys	Arg	Ala	Gly	His	Tyr	Leu	Ser	Leu	Val	Arg	Gly	Lys	Met	Ala
1				5					10					15	
Gln	Arg	Gly	Asp	Glu	Phe	Trp	Ile	Glu	Ile	Gln	Asp	Ile	Arg	His	Cys
			20					25					30		
Val	Glu	Asp	Glu	Gly	Asp	Thr	Leu	Thr	Leu	Leu	Trp	Met	Leu	Glu	Gly
		35					40					45			
Arg	Ala	Glu	Leu	Asn	Thr	Asp	Ala	Gly	Arg	Asp	Thr	Leu	Glu	Ala	Asn
	50				55					60					
Thr	Leu	Ala	Ile	Ile	Asn	Arg	His	Arg	Arg	Trp	Gln	Phe	Thr	Ser	Glu
65					70				75						80
Thr	Ala	Asn	Val	Thr	Leu	Arg	Val	Thr	Leu	Ser	Gly	Arg	Trp	Val	Val
			85					90						95	
Gln	Leu	Cys	Asn	Asp	Phe	Phe	Ala	His	Asp	Tyr	Ala	Val	Pro	Ala	Glu
		100					105					110			
Ala	Gly	Gly	Val	Trp	Pro	Gln	Cys	Asp	Ala	Leu	Arg	Asp	Leu	Leu	Arg
		115				120						125			
Gln	Leu	Leu	Val	Val	Thr	Leu	Ile	Asn	Asp	Pro	His	Arg	Tyr	Arg	Leu
	130					135				140					
Glu	Ala	Tyr	Arg	Trp	Leu	Ser	Glu	Ile	Leu	Leu	Leu	Leu	Thr	Ser	Arg
145					150				155						160
Phe	Gln	Gln	Pro	Ala	Arg	Met	Leu	Ser	Arg	Glu	Leu	Ser	Ser	Ala	His
			165						170					175	
Ser	Lys	Arg	Ile	Ala	Arg	Val	Ile	Glu	Arg	Ile	Asn	Ala	Ser	Tyr	Ser
		180					185					190			
Arg	Arg	Ile	Thr	Leu	Ala	Glu	Ile	Ala	Ala	Ser	Glu	Tyr	Val	Ser	Glu
		195					200					205			
Ala	Trp	Leu	Ser	Arg	Leu	Phe	Arg	Lys	Glu	Val	Gly	Ile	Ser	Phe	Met
	210				215						220				
Gln	Tyr	Ile	Thr	Arg	Leu	Arg	Leu	Glu	Lys	Ala	Ala	Asn	Ala	Leu	Arg
225					230					235					240
Leu	Thr	Asn	Arg	Pro	Leu	His	Gln	Ile	Ala	Leu	Glu	Gln	Gly	Phe	Ala
			245						250					255	
Ser	Thr	Arg	Met	Met	Ser	Asp	Arg	Phe	Arg	Arg	Val	His	Asn	Met	Ser
		260					265						270		
Pro	Gly	Glu	Phe	Arg	Lys	Ala	Arg	Arg	Gln	His	Pro	Glu	Ala	Ala	Arg
	275					280						285			
Val	Arg	Ala	Asp	Arg	Arg	Glu	Gln	Arg	Tyr	Pro	Val	Ala	Val	Asp	Lys
	290					295				300					
Leu	Phe	Ser	Leu	Leu	Asn	Glu	Pro	Val	Ala	Arg	Gly	Trp	Gly	Ala	Ser
305					310					315					320
Pro	Leu	Val	Val	His	Pro	Gln	Gln	Glu	Gln	Arg	Leu	Asp	Leu	Glu	Gln
			325						330					335	
Leu	Asn	Pro	Leu	Ser	Ala	Ser	Leu	Arg	Arg	Met	Arg	Val	Val	Ile	Thr

			340					345				350			
Leu	Arg	Glu	Leu	Asp	Asp	Leu	Leu	Arg	Glu	Asp	Val	Arg	Gln	Asn	Leu
		355					360					365			
Glu	Ala	Ile	Asn	Glu	Ala	Ile	Pro	Ile	Glu	Gly	Ile	Asp	Ile	Ala	Glu
		370				375					380				
Pro	Phe	Leu	Ser	Ser	Arg	Leu	Phe	Ala	Thr	Gly	Trp	Asp	Asp	Pro	Gln
385					390					395					400
Met	Ala	Gly	Tyr	Ala	Cys	Trp	Tyr	Asn	Leu	His	Gln	Leu	Phe	Thr	Trp
				405					410					415	
Leu	Ala	Lys	Lys	Gln	Trp	Thr	Val	Leu	Leu	His	Thr	Gly	Val	Thr	Thr
			420					425					430		
Arg	Arg	Asp	Leu	Leu	Thr	Arg	Phe	Leu	Gln	Gln	Ser	Val	Asn	His	Phe
		435					440					445			
Ala	Pro	Glu	Ile	Thr	Ala	Gly	Trp	His	Phe	Val	Met	His	Trp	Ser	Thr
		450				455					460				
Gln	Ala	Ser	Glu	Glu	Thr	Arg	Glu	Gln	Val	Trp	Leu	Ala	Gln	Gln	Lys
465					470					475					480
Ala	Ile	Arg	Thr	Tyr	Leu	Pro	Gln	Ala	Lys	Phe	Gly	Leu	Trp	His	Arg
				485					490					495	
Phe	Ala	Pro	Val	Ser	Ala	Gly	Val	Ser	Asp	Asp	Thr	Leu	Phe	Ser	Ser
			500					505					510		
Ala	Ile	Leu	Met	Gln	Ala	Asp	Phe	Leu	Ala	Cys	Ser	Ala	Asp	Ala	Asn
		515					520					525			
Glu	Leu	Leu	Asp	Pro	Ala	Gln	Leu	Glu	Val	Thr	Pro	Leu	Ser	Ser	Thr
		530				535					540				
Glu	Asn	Tyr	Pro	Ile	Leu	Lys	Val	Arg	Gln	Ile	Leu	Ala	Ala	Leu	Arg
545					550					555					560
Leu	Arg	Lys	Cys	Ser	Leu	Pro	Val	Trp	Leu	Leu	Ser	Trp	Asn	Thr	Leu
				565					570					575	
Thr	Gly	Asn	Thr	Arg	Ala	Thr	Asn	Gly	Trp	Phe	Phe	Arg	Gly	Ala	Leu
			580					585					590		
Leu	Met	Gln	Asn	Leu	Leu	Gly	Leu	Ser	Glu	Gln	Val	Trp	Leu	Ala	Gly
		595				600						605			
Phe	Trp	Leu	Asn	Ser	Gly	Leu	Gln	Gly	Glu	Ala	Arg	Ala	Asn	Asn	Thr
		610				615					620				
Ile	Asp	Thr	Ser	Ser	Leu	Ala	Leu	Gln	Tyr	Asn	His	Gly	Leu	Pro	Arg
625					630					635					640
Pro	Val	Tyr	Trp	Val	Leu	Trp	Leu	Trp	Gln	Arg	Leu	Arg	Gly	Glu	Val
				645					650					655	
Leu	Val	Asn	Asp	Lys	Arg	Val	Leu	Leu	Thr	Arg	His	Arg	Asn	Gly	Tyr
				660				665					670		
Gln	Leu	Leu	Leu	Arg	Asn	Val	Val	Val	Phe	Asn	Pro	Leu	Leu	Ser	Ser
		675				680						685			
Glu	Glu	Ala	Phe	Ile	Gln	Arg	Phe	Arg	Gln	Gln	Tyr	His	Leu	His	Leu
		690				695					700				
Lys	Gly	Met	Arg	Gly	Lys	Trp	Arg	Ile	Lys	Cys	His	Leu	Phe	Asp	Gln
705					710					715					720
His	Asn	Gly	Ala	Leu	Tyr	Pro	Leu	Leu	Glu	Gly	Val	Gly	Ser	Glu	Ser
				725					730					735	
Gly	Pro	Asp	Glu	Glu	Met	Trp	Arg	Trp	Ile	Ala	His	Lys	Ala	Arg	Pro
			740					745					750		
Thr	Leu	Ser	Val	Arg	Asp	Glu	Arg	Leu	Tyr	Asp	Gly	Trp	Gln	Leu	Ser
		755				760						765			
Glu	Ser	Leu	Glu	Ser	Asn	Ala	Leu	Val	Leu	Tyr	Glu	Phe	Thr	Pro	Leu
		770				775					780				
Val	Pro	His	Glu	Ala	Glu	Thr	Glu	Glu	Ile	His	Ser	Pro	Arg		
785					790					795					

<210> 7810

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 7810

Leu Leu Ile Pro Ile Arg Asn Phe Ile Arg Ser Lys Pro Pro Pro Ile
 1 5 10 15
 Val Pro Leu Phe Val Val Val Ser Glu Leu Leu Pro Val Asp Tyr Leu
 20 25 30
 Pro Leu Phe Ala Ala Leu Lys Asp Arg Pro Val Leu Val Val Gly Thr
 35 40 45
 Gly Glu Ile Ala Asp Arg Lys Ile Ala Phe Leu Gln Arg Ala Gly Ala
 50 55 60
 Gln Val Gln Ile Val Ala Glu Ala Asp Phe Ala Glu Ser Gln Ile Asp
 65 70 75 80
 Ser Val Val Leu Val Ile Ala Ala Thr Glu Asp Arg Ala Leu Asn Ser
 85 90 95
 Arg Ile Ser Asp Ala Ala Gln Ala Arg His Arg Leu Val Asn Val Val
 100 105 110
 Asp Asp Gln Pro Leu Cys Ser Phe Ile Phe Pro Ser Ile Val Asp Arg
 115 120 125
 Ser Pro Leu Leu Val Ala Ile Ser Ser Gly Gly Thr Ala Pro Val Leu
 130 135 140
 Ala Arg Val Leu Arg Glu Lys Ile Glu Ala Leu Leu Pro Thr Ser Leu
 145 150 155 160
 Gly Arg Met Ala Glu Lys Ala Ser Tyr Trp Arg Asn His Leu Lys Thr
 165 170 175
 Arg Leu Thr Ser Val Thr Glu Arg Arg Arg Phe Trp Glu Arg Val Phe
 180 185 190
 Arg Gly Arg Phe Ala Ser Leu Met Gln Ala Gly Asn Glu Thr Ala Ala
 195 200 205
 Gln Gln Ile Leu Glu Asp Glu Leu Asp Asn Pro Gly Ser Thr Gly Gly
 210 215 220
 Glu Ile Ile Leu Val Gly Ala Gly Pro Gly Asp Ala Gly Leu Leu Thr
 225 230 235 240
 Leu Arg Gly Leu Gln Val Leu Gln Asp Ala Asp Val Val Phe Tyr Asp
 245 250 255
 His Leu Val Thr Asp Gly Ile Arg Glu Leu Ile Arg Arg Asp Ala Glu
 260 265 270
 Gln Ile Cys Val Gly Lys Arg Ala Gly Glu His Ser Val Pro Gln His
 275 280 285
 Asp Thr Asn Gln Met Leu Ile Ala Ala Lys Ala Gly Lys Thr Val
 290 295 300
 Val Arg Leu Lys Gly Gly Asp Pro Phe Ile Phe Gly Arg Gly Gly Glu
 305 310 315 320
 Glu Leu Gln Ala Ala Ala Glu Ala Gly Val Pro Phe Gln Val Val Pro
 325 330 335
 Gly Ile Thr Ala Ala Ser Ala Val Thr Ala Tyr Ala Gly Ile Pro Leu
 340 345 350
 Thr His Arg Asp Tyr Ala Gln Ser Val Thr Phe Val Thr Gly His Tyr
 355 360 365
 Lys Ala Asp Ser Thr Pro Phe Asp Trp Ser His Leu Ala Gln Ser Arg
 370 375 380
 Gln Thr Leu Ala Ile Tyr Met Gly Thr Met Lys Ala Ala Asp Ile Ser
 385 390 395 400
 Glu Gln Leu Ile Gln His Gly Arg Asp Ala Ala Thr Pro Val Ala Val
 405 410 415
 Ile Ser Arg Gly Thr Arg Val Asp Gln His Val Ala Ile Gly Thr Leu
 420 425 430
 Gln Asp Leu Ala Thr Leu Ala Lys Asp Ala Pro Met Pro Ala Leu Ile
 435 440 445
 Val Val Gly Glu Val Val Gln Leu His Ser Thr Leu Ala Trp Phe Gln
 450 455 460

His Thr Thr Asp Thr Glu Gly Phe Gly Ala Ser Val Ile Asn Leu Ala
 465 470 475 480

<210> 7811
 <211> 306
 <212> PRT
 <213> Enterobacter cloacae

<400> 7811
 Gly Thr Val Met Asp Gln Lys Arg Leu Thr His Leu Arg Gln Leu Glu
 1 5 10 15
 Ala Glu Ser Ile His Ile Ile Arg Glu Val Ala Ala Glu Phe Ser Asn
 20 25 30
 Pro Val Met Met Tyr Ser Ile Gly Lys Asp Ser Ser Val Met Leu His
 35 40 45
 Leu Ala Arg Lys Ala Phe Tyr Pro Gly Thr Leu Pro Phe Pro Leu Leu
 50 55 60
 His Val Asp Thr Gly Trp Lys Phe Arg Glu Met Tyr Glu Phe Arg Asp
 65 70 75 80
 Arg Thr Ala Lys Ala Tyr Gly Cys Glu Leu Val His Lys Asn Pro
 85 90 95
 Glu Gly Val Ala Met Gly Ile Asn Pro Phe Val His Gly Ser Ala Lys
 100 105 110
 His Thr Asp Ile Met Lys Thr Glu Gly Leu Lys Gln Ala Leu Asn Lys
 115 120 125
 Tyr Gly Phe Asp Ala Ala Phe Gly Gly Ala Arg Arg Asp Glu Glu Lys
 130 135 140
 Ser Arg Ala Lys Glu Arg Ile Tyr Ser Phe Arg Asp Arg Phe His Arg
 145 150 155 160
 Trp Asp Pro Lys Asn Gln Arg Pro Glu Leu Trp His Asn Tyr Asn Gly
 165 170 175
 Gln Ile Asn Lys Gly Glu Ser Ile Arg Val Phe Pro Leu Ser Asn Trp
 180 185 190
 Thr Glu Leu Asp Ile Trp Gln Tyr Ile Tyr Leu Glu Asn Ile Glu Ile
 195 200 205
 Val Pro Leu Tyr Leu Ala Ala Glu Arg Pro Val Leu Glu Arg Asp Gly
 210 215 220
 Met Leu Met Met Ile Asp Asp Arg Ile Asp Leu Gln Pro Gly Glu
 225 230 235 240
 Val Ile Lys Lys Gln Met Val Arg Phe Arg Thr Leu Gly Cys Trp Pro
 245 250 255
 Leu Thr Gly Ala Val Glu Ser Ser Ala Gln Thr Leu Pro Glu Ile Ile
 260 265 270
 Glu Glu Met Leu Val Ser Thr Thr Ser Glu Arg Gln Gly Arg Val Ile
 275 280 285
 Asp Arg Asp Gln Ala Gly Ser Met Glu Leu Lys Lys Arg Gln Gly Tyr
 290 295 300
 Phe
 305

<210> 7812
 <211> 478
 <212> PRT
 <213> Enterobacter cloacae

<400> 7812
 Gly Ala Ala Met Asn Thr Thr Ile Ala Gln Gln Ile Ala Asp Glu Gly
 1 5 10 15
 Gly Val Glu Ala Tyr Leu His Ala Gln Gln Tyr Lys Ser Leu Leu Arg

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<210> 7813
<211> 116
<212> PRT
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<213> Enterobacter cloacae

<400> 7813

Val Thr Val Thr Gly Leu Ala Met Arg Asn Ser Glu Asn Tyr Met Ile
 1 5 10 15
 Thr Thr Gly Ser Glu Pro Leu Thr Thr Asp Asp Glu Thr Thr Trp Ser
 20 25 30
 Phe Pro Gly Ala Ile Val Gly Phe Val Ser Trp Leu Leu Ala Leu Gly
 35 40 45
 Ile Pro Phe Leu Ile Tyr Gly Gly Asn Thr Leu Phe Phe Phe Leu Tyr
 50 55 60
 Thr Trp Pro Phe Phe Leu Ala Leu Met Pro Val Ala Val Val Val Gly
 65 70 75 80
 Val Ala Leu His Ser Leu Phe Asn Gly Lys Leu Leu Tyr Ser Thr Leu
 85 90 95
 Ile Thr Ile Ala Thr Val Val Val Ile Phe Gly Leu Leu Phe Leu Trp
 100 105 110
 Leu Met Gly
 115

<210> 7814

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 7814

Ser Arg Gly Ala Ala Gly Glu Gly Gly Gln Met Thr Asp Phe Asp Asn
 1 5 10 15
 Leu Thr Tyr Leu His Gly Glu Pro Gln Gly Lys Gly Leu Leu Lys Ala
 20 25 30
 Asn Pro Glu Asp Phe Val Val Val Glu Asp Leu Gly Phe Glu Pro Asp
 35 40 45
 Gly Glu Gly Glu His Ile Leu Val Arg Ile Leu Lys Asn Gly Cys Asn
 50 55 60
 Thr Arg Phe Val Ala Asp Ala Leu Ala Lys Phe Leu Asn Ile His Ala
 65 70 75 80
 Arg Glu Val Ser Phe Ala Gly Gln Lys Asp Lys His Ala Val Thr Glu
 85 90 95
 Gln Trp Leu Cys Ala Arg Val Pro Gly Asn Ala Met Pro Asp Leu Ser
 100 105 110
 Lys Phe Glu Leu Glu Gly Cys Lys Val Leu Glu Tyr Ala Arg His Lys
 115 120 125
 Arg Lys Leu Arg Leu Gly Ala Leu Lys Gly Asn Ala Phe Thr Leu Val
 130 135 140
 Leu Arg Glu Val Thr Glu Arg Glu Asp Val Glu Lys Arg Leu Lys Ala
 145 150 155 160
 Ile Asn Glu Arg Gly Val Pro Asn Tyr Phe Gly Ala Gln Arg Phe Gly
 165 170 175
 Ile Gly Gly Ser Asn Leu Leu Gly Ala Leu Arg Trp Ala Gln Ser Gly
 180 185 190
 Ala Pro Val Arg Asp Arg Asn Lys Arg Ser Phe Trp Leu Ser Ala Ala
 195 200 205
 Arg Ser Ala Leu Phe Asn Gln Ile Val Ser Glu Arg Leu Lys Lys Pro
 210 215 220
 Asp Ala Asn Gln Val Val Val Gly Asp Ala Leu Gln Leu Ala Gly Arg
 225 230 235 240
 Gly Ser Trp Phe Val Ala Thr Ala Asp Glu Met Ala Asp Val Gln Ser
 245 250 255
 Arg Val Asp Ala Lys Thr Leu Met Ile Thr Ala Ala Leu Pro Gly Ser
 260 265 270
 Gly Asp Trp Gly Thr Gln Gly Glu Ala Leu Ala Ala Glu Gln Ser Ala

	275		280		285										
Val	Ala	Asp	Ala	Pro	Glu	Leu	Gln	Ser	Leu	Leu	Val	Arg	Glu	Lys	Val
	290					295					300				
Glu	Ala	Ala	Arg	Arg	Ala	Met	Leu	Leu	Tyr	Pro	Gln	Gln	Leu	Ser	Trp
305					310						315				320
Asn	Trp	Trp	Asp	Asp	Val	Thr	Val	Glu	Leu	Arg	Phe	Trp	Leu	Pro	Ala
			325						330					335	
Gly	Ser	Phe	Ala	Thr	Ser	Val	Val	Arg	Glu	Leu	Ile	Asn	Thr	Ser	Gly
			340					345					350		
Asp	Tyr	Ala	Asn	Ile	Ala	Glu									
	355						360								

<210> 7815

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7815

Cys	Gly	Val	Gly	Leu	Val	Arg	Ser	Gly	Arg	Ser	Glu	Arg	Ala	Met	Val
1				5					10					15	
Ser	Lys	Arg	Val	Gln	Thr	Leu	Leu	Glu	Gln	Leu	Arg	Ala	Gln	Gly	Ile
			20					25					30		
Ala	Asn	Glu	Gln	Val	Leu	Asp	Ala	Leu	Ala	Gln	Val	Pro	Arg	Glu	Lys
		35					40					45			
Phe	Val	Asp	Glu	Ala	Phe	Glu	His	Lys	Ala	Trp	Glu	Asn	Val	Ala	Leu
	50					55					60				
Pro	Ile	Gly	Gln	Gly	Gln	Thr	Ile	Ser	Gln	Pro	Tyr	Met	Val	Ala	Arg
65					70					75					80
Met	Thr	Glu	Leu	Leu	Glu	Leu	Thr	Pro	Asp	Ser	Arg	Val	Leu	Glu	Ile
				85					90					95	
Gly	Thr	Gly	Ser	Gly	Tyr	Gln	Thr	Ala	Ile	Leu	Ala	His	Leu	Val	His
			100					105					110		
His	Val	Cys	Ser	Arg	Gly	Thr	Asp								
		115					120								

<210> 7816

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 7816

Gly	Leu	Thr	Met	Phe	Ser	Ala	Met	Arg	His	Arg	Phe	Val	Ala	Leu	Ala
1				5					10					15	
Leu	Gly	Val	Cys	Phe	Ile	Leu	Pro	Ala	Gln	Ala	Lys	Asn	Pro	Ser	Tyr
			20					25					30		
Gly	Glu	Ile	Ala	Ser	Met	Gln	Ala	Arg	His	Ile	Ala	Thr	Val	Phe	Pro
		35					40					45			
Gly	Arg	Met	Thr	Gly	Thr	Pro	Ala	Glu	Met	Leu	Ser	Ala	Asp	Tyr	Ile
	50					55				60					
Arg	Gln	Gln	Phe	Ala	Asp	Met	Gly	Tyr	Glu	Ser	Asp	Ile	Arg	Ala	Phe
65					70					75					80
His	Ser	Arg	Tyr	Ile	Tyr	Thr	Thr	Arg	Asn	Lys	Thr	Gln	Asn	Trp	His
				85					90					95	
Asn	Val	Thr	Gly	Ser	Thr	Val	Ile	Ala	Ala	His	Glu	Gly	Lys	Thr	Ala
			100					105					110		
Glu	Gln	Ile	Ile	Ile	Met	Ala	His	Leu	Asp	Thr	Tyr	Thr	Pro	Leu	Ser
		115					120					125			
Asp	Ala	Asp	Val	Asp	Asn	Asn	Leu	Gly	Gly	Leu	Thr	Leu	Gln	Gly	Leu
	130					135				140					
Asp	Asp	Asn	Ala	Ala	Gly	Leu	Gly	Val	Met	Leu	Glu	Leu	Ala	Glu	Arg
145					150					155					160

Leu Lys Asn Ile Pro Thr Lys Tyr Ser Ile Arg Phe Val Ala Thr Ser
 165 170 175
 Gly Glu Glu Glu Gly Lys Leu Gly Ala Glu Asn Leu Leu Lys Arg Met
 180 185 190
 Ser Ala Glu Glu Lys Lys Asn Thr Leu Leu Val Ile Asn Leu Asp Asn
 195 200 205
 Leu Ile Val Gly Asp Lys Leu Tyr Phe Asn Ser Gly Gln Ser Thr Pro
 210 215 220
 Ser Ser Val Arg Lys Leu Thr Arg Asp Arg Ala Leu Ala Leu Ala Arg
 225 230 235 240
 Thr His Gly Val Tyr Ala Ala Thr Asn Pro Gly Gly Asn Pro Glu Tyr
 245 250 255
 Pro Lys Gly Thr Gly Cys Cys Asn Asp Gly Glu Val Phe Asp Lys Ala
 260 265 270
 Gly Ile Pro Val Leu Tyr Val Glu Ala Thr Asn Trp Ala Leu Gly Lys
 275 280 285
 Lys Asp Gly Tyr Gln Gln Arg Ser Lys Ser Lys Ala Phe Pro Asp Gly
 290 295 300
 Thr Ser Trp His Asp Val Arg Leu Asp Asn Gln Gln His Ile Asp Lys
 305 310 315 320
 Ala Leu Pro Gln Arg Ile Glu His Arg Ser Arg Asp Val Val Lys Val
 325 330 335
 Met Leu Pro Leu Val Lys Glu Leu Ala Lys Ala Gly Lys Ala
 340 345 350

<210> 7817

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 7817

Leu Asn Cys Met Lys Asn Asn Gln Asn Lys Ala Val Ala Leu Gln Gln
 1 5 10 15
 Lys Ile Ala Phe Ser Gly Ser Thr Ile Val Ile Asp Ser Lys Leu Ser
 20 25 30
 Ser Phe Gly Arg Lys Arg Ile Thr Lys Met Thr His Pro Ile Ile Glu
 35 40 45
 Ala Leu Arg Gly Asn Glu Ala Arg Phe Thr Glu Leu Arg Arg Tyr Phe
 50 55 60
 His Gln His Pro Glu Ile Gly Phe Glu Glu His Asn Thr Ser Asp Arg
 65 70 75 80
 Val Ala Ala Leu Leu Gln Glu Trp Gly Tyr Glu Val His Arg Gly Leu
 85 90 95
 Ala Lys Thr Gly Val Val Gly Thr Leu Lys Val Gly Asn Gly His Lys
 100 105 110
 Arg Leu Gly Leu Arg Ala Asp Met Asp Ala Leu Pro Met Gln Glu Asn
 115 120 125
 Asn Gly Lys Ala Trp Ser Ser Thr Val Glu Gly Lys Phe His Gly Cys
 130 135 140
 Gly His Asp Gly His Thr Thr Thr Leu Leu Tyr Ala Ala Glu Tyr Leu
 145 150 155 160
 Ala Arg Thr Arg Asn Phe Asn Gly Thr Leu His Leu Ile Phe Gln Pro
 165 170 175
 Ala Glu Glu Leu Leu Tyr Gly Gly Arg Val Met Val Glu Asp Gly Leu
 180 185 190
 Phe Asp Leu Phe Pro Cys Asp His Ile Phe Gly Leu His Asn Met Pro
 195 200 205
 Ser Gln Pro Leu Gly Lys Ile Gly Leu Arg Asp Gly Ala Met Met Ala
 210 215 220
 Ser Ser Asp Thr Leu His Ile Glu Val Asn Gly Val Gly Gly His Gly
 225 230 235 240

Ala Val Pro Glu His Thr Val Asp Ala Thr Leu Val Ala Cys His Ile
 245 250 255
 Thr Ile Ala Leu Gln Ser Ile Val Ser Arg Asn Ile Thr Pro Phe Gln
 260 265 270
 Pro Ala Val Val Thr Val Gly Ser Ile Gln Ala Gly His Ala Pro Asn
 275 280 285
 Ile Ile Asn Asp Lys Val Leu Met Lys Leu Thr Val Arg Thr Leu Asp
 290 295 300
 Glu Arg Val Arg Gln Thr Val Leu Gln Arg Ile His Asp Ile Ala Val
 305 310 315 320
 Ala Gln Ala Glu Ser Phe Asn Ala Thr Ala Thr Ile Arg His Ile Asn
 325 330 335
 Gly Ser Pro Val Leu Lys Asn Asn Pro Gln Ala Asn Glu Met Val Arg
 340 345 350
 Ser Val Ala Thr Asp Leu Phe Gly Gln Asp Ala Val Ala Glu Val Asn
 355 360 365
 Ala Phe Met Gly Ser Glu Asp Phe Ala Phe Met Leu Glu Lys Asn Pro
 370 375 380
 Asn Gly Cys Tyr Phe Thr Leu Gly Ala Gly Asp Glu Pro Asp Arg Cys
 385 390 395 400
 Met Val His Asn Pro Gly Tyr Asp Phe Asn Asp Asn Ile Leu Leu Thr
 405 410 415
 Gly Ala Ala Leu Trp Ala Ala Leu Thr Glu His Asn Leu Arg
 420 425 430

<210> 7818

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7818

Phe Ala Pro Ser Arg Glu Gly Cys Thr Met Ser Thr Val Ser Leu Thr
 1 5 10 15
 Gly Ala Ser Ala Tyr Ala Gly Asn Asp Arg Leu Leu Ala Gly Ile Val
 20 25 30
 Met Ser Val Leu Thr Phe Trp Leu Phe Ala Gln Ser Val Ile Asn Val
 35 40 45
 Val Pro Ala Met Gln Asn Ser Leu Asp Ile Ala Leu Glu Thr Leu Thr
 50 55 60
 Leu Ala Val Ser Leu Ser Ala Leu Phe Ser Gly Cys Phe Val Val Ala
 65 70 75 80
 Cys Gly Gly Phe Ala Asp Lys Tyr Gly Arg Met Arg Leu Thr Met Ile
 85 90 95
 Gly Leu Ile Leu Ser Met Ile Gly Ser Gly Leu Leu Phe Ile Ser Trp
 100 105 110
 Glu Pro Val Leu Phe Leu Leu Gly Arg Ala Ile Gln Gly Leu Ser Ala
 115 120 125
 Ala Cys Ile Met Pro Ala Thr Leu Ala Leu Ile Lys Thr Trp Tyr Asp
 130 135 140
 Gly Lys Ala Arg Gln Arg Ala Ile Ser Phe Trp Val Ile Gly Ser Trp
 145 150 155 160
 Gly Gly Ser Gly Leu Ser Ser Phe Val Gly Gly Ala Ile Ala Thr Thr
 165 170 175
 Leu Gly Trp Arg Trp Ile Phe Ile Phe Ser Met Val Val Ala Leu Ala
 180 185 190
 Ala Leu Leu Ile Ile Arg Ala Thr Pro Glu Ser Arg Ser His Asp Ala
 195 200 205
 Cys Arg His Lys Leu Asp Ile Ser Gly Leu Val Ser Phe Val Leu Met
 210 215 220
 Leu Val Leu Phe Asn Leu Phe Ile Ser Lys Gly His Ser Trp Gly Trp
 225 230 235 240

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Ser Ser Ser Leu Ser Leu Leu Val Leu Cys Gly Ala Val Ile Ala Leu
      245      250      255
Met Cys Phe Val Val Thr Gly Arg Arg Lys Gly Asp Ala Ala Leu Ile
      260      265      270
Asp Phe Ala Leu Phe Lys Asn Arg Ala His Ser Ala Ser Val Phe Ser
      275      280      285
Asn Phe Leu Leu Asn Gly Cys Ile Gly Thr Met Met Ile Ala Ser Ile
      290      295      300
Trp Leu Gln Gln Gly His His Leu Ser Pro Leu Gln Thr Gly Met Met
305      310      315      320
Thr Leu Gly Tyr Leu Val Thr Val Leu Ala Met Ile Arg Val Gly Glu
      325      330      335
Lys Leu Leu Gln Arg Tyr Gly Ala Arg Leu Pro Met Met Thr Gly Pro
      340      345      350
Leu Leu Thr Ala Thr Gly Ile Ser Leu Ile Ser Cys Thr Phe Leu Ser
      355      360      365
Lys Glu Val Tyr Ile Val Thr Val Phe Leu Ser Asn Ile Leu Phe Gly
      370      375      380
Leu Gly Leu Gly Cys Tyr Ala Thr Pro Ser Thr Asp Thr Ala Val Met
385      390      395      400
Asn Ala Pro Glu Asn Lys Val Gly Val Ala Ser Gly Ile Tyr Lys Met
      405      410      415
Gly Ser Ser Leu Gly Gly Ala Met Gly Ile Ala Val Thr Ala Ser Leu
      420      425      430
Tyr Ala Leu Trp Leu Pro Met Gly Thr Ala Ser Ala Ala Gln Tyr Ala
      435      440      445
Leu Leu Phe Asn Ser Ala Ile Cys Leu Gly Ser Ala Val Val Thr Trp
      450      455      460
Ala Leu Leu Pro Thr Thr Lys Ala Pro Arg
465      470      475

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<210> 7819

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 7819

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Leu Ser Phe Leu Thr Ile Lys Ala Ile Lys Gln Leu Ser Glu Ile Lys
1      5      10      15
Gln Gln Lys Ser Ile Asn Thr Met Asn Thr Arg Arg Arg Gln Phe Arg
      20      25      30
Ala Val Leu Val Asn Asp Lys Asn Cys Ala Phe Arg Tyr Tyr Ala Ala
      35      40      45
Val Phe Ser Ala Phe Leu Arg Ala Met Met Ser Thr Thr Leu Phe Lys
      50      55      60
Asp Phe Thr Phe Glu Ala Ala His His Leu Pro His Val Pro Ala Gly
65      70      75      80
His Lys Cys Gly Arg Leu His Gly His Ser Phe Met Val Arg Leu Glu
      85      90      95
Ile Thr Gly Glu Val Asp Pro His Thr Gly Trp Ile Met Asp Phe Ala
      100      105      110
Glu Leu Lys Ala Ala Phe Lys Pro Thr Tyr Asp Arg Leu Asp His Tyr
      115      120      125
Tyr Leu Asn Asp Ile Pro Gly Leu Glu Asn Pro Thr Ser Glu Val Leu
      130      135      140
Ala Lys Trp Ile Trp Asp Gln Met Lys Pro Leu Val Pro Leu Leu Ser
145      150      155      160
Ala Val Met Ile Lys Glu Thr Cys Thr Ala Gly Cys Val Tyr Arg Gly
      165      170      175
Glu

```

<210> 7820
 <211> 108
 <212> PRT
 <213> Enterobacter cloacae

<400> 7820
 His Phe Arg Ala Ile Ser Trp Leu His Ile Asn Gly Arg Glu Trp Lys
 1 5 10 15
 His Ile Arg Glu Val Leu Ile Tyr Ala Phe Ile Tyr Glu Gly Val Pro
 20 25 30
 Ser Trp Asp Lys Thr Asp Gly Val Val Thr Ile His Val Pro Asp Gln
 35 40 45
 Pro Pro Ile Glu Thr Arg Leu Thr Glu Gly Glu Asn Arg Arg Thr Leu
 50 55 60
 Cys Ala Ile Ala Arg Leu Val Asn Glu Asn Gly Ala Ile Lys Val Glu
 65 70 75 80
 Arg Ile Asn Gln Tyr Phe Lys Gly Gln Asp Glu Met Asp Arg Ala Phe
 85 90 95
 Gly Trp Gly Phe Arg Trp Ser Ala Gly Ser Lys
 100 105

<210> 7821
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 7821
 Gly Gln Leu Met Ile Asn Asn Asp Tyr Pro Leu Asn Thr Leu Asn Gln
 1 5 10 15
 Leu Arg Pro Leu Leu Ile Gly Phe Arg Lys Ala Asn Gly Leu Thr Gln
 20 25 30
 Lys Asp Leu Ser Glu Arg Leu Gly Val Thr Gln Gln Thr Tyr Ser Arg
 35 40 45
 Leu Glu Ala Asn Pro Ala Ser Ala Ser Ile Glu Arg Leu Phe Lys Val
 50 55 60
 Phe Thr Val Leu Gly Val Lys Ile Ser Phe Ser Ser Ala Thr Thr Ser
 65 70 75 80
 Ser Glu Arg Lys Gln Thr Glu Asp Ile Tyr Lys Leu Asn Ser Pro Ala
 85 90 95
 Pro Gln Glu Asp Trp
 100

<210> 7822
 <211> 276
 <212> PRT
 <213> Enterobacter cloacae

<400> 7822
 Glu Glu Ile Lys Met Arg Glu Pro Arg Pro Arg His Thr Leu Gln Val
 1 5 10 15
 Ile Arg Val Pro Ser Leu Glu Val Gln Asp Leu Gly Leu Thr Ser Phe
 20 25 30
 Asp Ser Trp Leu Asp Glu His Gly Tyr Asp Lys Thr Asn Ala Arg Asn
 35 40 45
 Asn Arg Thr Ile Trp Ala Arg Glu Gly Gly Trp His Leu Lys Arg Cys
 50 55 60
 Arg Asn Leu Glu Thr Gly Thr Asp Asp Phe Trp Phe Ile Ala Phe Asp
 65 70 75 80
 Gly Lys Gly Gly Lys Ile Tyr Pro Leu Lys Thr Gln Arg Asp Tyr Arg
 85 90 95

Ala Ala Tyr Arg Lys Leu Glu Ala Glu Gly Tyr Ala Pro Ala Val Ile
 100 105 110
 Glu Gln Met Thr Thr Gly Ala Ala Tyr Asn Leu Ala Tyr Pro Arg Ser
 115 120 125
 Thr Leu Lys Gln Val Glu Thr Ala Thr Ser Glu Pro Met Arg Lys Pro
 130 135 140
 Asp Val Asp Ile Gln Gly Glu His Cys Glu Arg Val Val Thr Gln Arg
 145 150 155 160
 Ser Gly Val Ala Gln Gly Lys Phe Lys Ala Leu Leu Ile Glu Asn Phe
 165 170 175
 Ala Gly Arg Cys Ala Val Thr Gly Trp Val Asn Gly Gly Val Leu Asp
 180 185 190
 Ala Ala His Ile Glu His Gly Thr Arg Tyr Asn Pro Ser Asn Gly Ile
 195 200 205
 Leu Met Thr Pro Thr Met His Ala Leu Phe Asp Ala Asp Leu Met Gly
 210 215 220
 Ile Asp Pro Ala Thr Leu Thr Val His Phe Lys Pro Gly Ile Glu Val
 225 230 235 240
 Gly Glu Leu Phe Glu Gly Arg Lys Ile Thr Pro Leu Val Tyr Asp Leu
 245 250 255
 Asp Leu Glu Arg Leu Ala Val Arg Trp Ala Glu Tyr Gln Gly Leu Ala
 260 265 270
 Gln Asp Gln
 275

<210> 7823

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7823

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7824

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 7824

Thr Lys Thr Ala Gln Leu Lys Ser Ser Glu Leu Thr Ser Thr Ser Lys

```
<210> 7825
<211> 211
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7826

<211> 421

<212> PRT

<213> Enterobacter cloacae

<400> 7826

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Ser Lys Ile Arg Arg Val Asn Val Asn Leu Gln Ser Gly Gln Asn Ile
1      5      10      15
Pro Leu Gln Gln Ser Ala Ile Arg Leu Ash Leu Gln Tyr Pro Thr Lys
20      25      30
Ser Gly Phe Lys Gly Glu Pro Asp Thr Cys Leu Phe Leu Leu Asn Ala
35      40      45
Gln Gly Lys Val Ser Gly Asp Ser Asp Phe Ile Phe Tyr Asn Asn Leu
50      55      60
Ser Ser Pro Glu Gly Ala Val Lys Leu Val Thr Gly Ser Gln Gln Ser
65      70      75      80
Ser Ile Glu Ile Ala Leu Asp Arg Val Pro Ala Asn Ile Ser Lys Ile
85      90      95
Ala Ile Thr Val Val Ile Asp Gly Glu Asp Thr Ile Ser Gly Leu Ser
100     105     110
Ser Leu Ser Met Gln Ala Gln Gly Ile Ala Glu Phe Gln Ala Glu Thr
115     120     125
Gln Gly Arg Ser Glu Lys Ala Ile Ile Leu Gly Glu Val Tyr Arg His
130     135     140
Asn Gly Ala Trp Lys Leu Arg Ala Leu Gly Gln Gly Phe Asn Gly Gly
145     150     155     160
Leu Glu Pro Leu Ala Ile Ser Tyr Gly Val Asp Val Ala Gln Pro Ala
165     170     175
Pro Gln Pro Ala Lys Pro Ala Arg Ile Ser Leu Glu Lys Lys Leu Glu
180     185     190
Thr Arg Ser Pro Arg Leu Val Ser Leu Ala Lys Lys Ala Ser Val Ser
195     200     205
Leu Thr Lys Asn Lys Leu Asp Thr Leu Glu Ala Ala Val Ala Phe Val
210     215     220
Leu Asp Ala Ser Gly Ser Met Ser Gly Gln Phe Ser Lys Gly Asn Val
225     230     235     240
Gln Ser Val Leu Asp Arg Ile Ala Val Leu Ala Ala Gln Phe Asp Asp
245     250     255
Asp Gly Glu Met Asp Val Trp Gly Phe Gly Glu Lys His Lys Lys Tyr
260     265     270
Pro Asn Val Thr Leu Asp Asn Leu Asp Thr Tyr Ile Gln Ser Ile Arg
275     280     285
Gly Ala Gly Lys Arg Ser Ala Trp Glu Asn Leu Pro Gly Leu Gly Gly
290     295     300
Thr Asn Asn Glu Pro Pro Val Met Glu Glu Ile Val Asp Tyr Phe Lys
305     310     315     320
Asp Ser Lys Ile Pro Val Tyr Val Val Phe Ile Thr Asp Gly Gly Ile
325     330     335
Ser Lys Thr Arg Ala Ile Lys Asp Ala Ile Arg Arg Ser Ala Asn Tyr
340     345     350
Pro Ile Phe Trp Lys Phe Val Gly Leu Gly Gly Ser Ser Tyr Gly Ile
355     360     365
Leu Lys Asn Leu Asp Asp Phe Thr Asp Arg Arg Val Asp Asn Thr His
370     375     380
Phe Phe Ala Met Asp Asp Phe Gly Ser Ile Ser Asp Glu Lys Leu Tyr
385     390     395     400
Asp Asn Leu Leu Glu Phe Arg Pro Trp Ile Asp Glu Thr Lys Arg
405     410     415
Leu Gly Ile Leu
420

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<210> 7827
 <211> 453
 <212> PRT
 <213> Enterobacter cloacae

<400> 7827

Ile	His	Leu	His	His	Arg	Arg	Ile	Gly	Asn	Tyr	Met	Ser	Arg	Lys	Gln
1			5					10						15	
Gln	Arg	Leu	Val	Ile	Trp	Met	Asn	Gly	Ile	Lys	Ile	Gly	Tyr	Trp	Glu
		20						25					30		
Lys	Ser	Lys	Gly	Val	Asp	Ser	Leu	Glu	Tyr	Leu	Pro	Glu	Trp	Val	Ala
		35					40					45			
Asp	Glu	Gln	Gly	Arg	Pro	Leu	Ser	Leu	Ser	Leu	Pro	Phe	Thr	Pro	Gly
	50					55					60				
Asn	Gln	Val	Trp	Arg	Gly	Asn	Val	Val	Arg	Asp	Tyr	Phe	Asp	Asn	Leu
65					70					75					80
Leu	Pro	Asp	Ser	Glu	Gly	Ile	Arg	Arg	Arg	Leu	Ala	Met	Arg	Tyr	Lys
			85					90						95	
Ala	Asp	Ser	Leu	Glu	Pro	Phe	Asp	Leu	Leu	Thr	Glu	Leu	Gly	Lys	Asp
			100					105					110		
Cys	Val	Gly	Ala	Ile	Gln	Leu	Leu	His	Asp	Gly	Asp	Glu	Pro	Thr	Asp
		115					120					125			
Leu	Tyr	Ser	Val	Lys	Tyr	His	Pro	Leu	Thr	Glu	Ser	Glu	Ile	Ala	Ala
	130					135					140				
Thr	Leu	Arg	Asn	Thr	Thr	Glu	Thr	Leu	Leu	Pro	Gly	Arg	Pro	Glu	Asp
145					150					155					160
Asn	Asp	Asp	Leu	Arg	Leu	Ser	Ile	Ala	Gly	Ala	Gln	Glu	Lys	Thr	Ala
			165						170					175	
Leu	Leu	Trp	His	Glu	Asp	Arg	Trp	Cys	Met	Pro	Glu	Gly	Asn	Thr	Pro
			180					185					190		
Thr	Thr	His	Ile	Phe	Lys	Leu	Pro	Leu	Gly	Leu	Val	Gly	Asn	Met	Lys
		195					200					205			
Ala	Asp	Met	Ser	Ser	Ser	Val	Glu	Asn	Glu	Trp	Leu	Cys	Ser	Val	Leu
	210					215					220				
Leu	Asp	Gln	Tyr	Gly	Leu	Pro	Val	Ala	Arg	Thr	Gln	Ile	Ala	His	Phe
225					230					235					240
Glu	Asp	Gln	Lys	Ala	Leu	Val	Val	Glu	Arg	Phe	Asp	Arg	Lys	Trp	Ser
			245						250					255	
Gly	Asp	Gly	Gln	Trp	Ile	Ile	Arg	Leu	Pro	Gln	Glu	Asp	Met	Cys	Gln
			260					265					270		
Ala	Leu	Gly	Val	Ser	Pro	Leu	Arg	Lys	Tyr	Gln	Ala	Asp	Gly	Gly	Pro
		275					280					285			
Gly	Ile	Ser	Glu	Ile	Met	Glu	Val	Leu	Ser	Asn	Ser	Asp	Arg	Ala	Glu
	290					295				300					
Arg	Asp	Lys	Ala	Gln	Phe	Phe	Met	Thr	Gln	Ile	Ile	Phe	Trp	Met	Met
305					310					315					320
Ala	Ala	Thr	Asp	Gly	His	Ala	Lys	Asn	Phe	Ser	Ile	Ser	Ile	Gly	Pro
			325						330					335	
Gln	Gly	Arg	Tyr	His	Leu	Thr	Pro	Leu	Tyr	Asp	Val	Leu	Ser	Ala	Trp
			340					345					350		
Pro	Val	Ile	Gly	His	Gly	Asn	Asn	Gln	Ile	Ser	Trp	Gln	Lys	Cys	Lys
		355				360						365			
Leu	Ala	Met	Ala	Val	Arg	Gly	Ser	Ser	Asn	Tyr	Tyr	Gln	Ile	Tyr	Arg
	370					375					380				
Ile	Gln	Arg	Arg	His	Trp	Ile	Arg	His	Gly	Glu	Ile	Thr	Gly	Leu	Ser
385					390					395					400
Lys	Gln	Gln	Thr	Glu	Ala	Met	Ile	Glu	Glu	Ile	Ile	Ala	Arg	Thr	Pro
			405						410					415	
Gly	Val	Ile	Glu	Arg	Val	Ser	Gly	Leu	Leu	Pro	Asp	Gln	Phe	Pro	Gln
		420						425				430			
Gln	Leu	Ala	Glu	Ser	Ile	Phe	Asp	Gly	Met	Arg	Gln	Gln	Cys	Arg	Arg

435
Leu Ala Glu Lys
450

440

445

<210> 7828
<211> 95
<212> PRT
<213> Enterobacter cloacae

<400> 7828
Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
1 5 10 15
Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
20 25 30
Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
35 40 45
Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
50 55 60
Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
65 70 75 80
Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
85 90 95

<210> 7829
<211> 348
<212> PRT
<213> Enterobacter cloacae

<400> 7829
Asn Met Val Ser Thr His Ile Gly Phe Pro Thr Glu Thr Val Ile Val
1 5 10 15
Phe Ile Ala Leu Ser Val Gly Ala Ile Phe Ile Asp Leu Phe Met His
20 25 30
Arg Asp Asp Lys Pro Ile Ser Leu Lys Ser Ala Ala Leu Trp Ser Val
35 40 45
Phe Trp Val Val Val Ala Met Ala Phe Ala Gly Phe Leu Tyr Ile His
50 55 60
His Gly Ala Glu Val Ala Ser Leu Phe Val Thr Gly Tyr Ala Leu Glu
65 70 75 80
Lys Val Leu Ser Val Asp Asn Leu Phe Val Met Met Ala Ile Phe Ser
85 90 95
Trp Phe Ala Val Pro Asp Arg Tyr Arg His Arg Val Leu Tyr Trp Gly
100 105 110
Ile Ile Gly Ala Ile Val Phe Arg Gly Ile Phe Val Ala Ile Gly Thr
115 120 125
Ser Leu Leu Ser Leu Gly Pro Tyr Val Glu Val Val Phe Ala Ile Ile
130 135 140
Val Ala Trp Thr Ala Val Met Met Leu Lys Ser Gly Asp Asp Asp Asp
145 150 155 160
Glu Ile Glu Asp Tyr Ser Gln His Leu Ala Tyr Arg Met Val Lys Arg
165 170 175
Phe Phe Pro Ile Trp Pro Lys Leu Arg Gly His Ala Phe Leu Leu Asn
180 185 190
Gln Lys Glu Val Asp Ala Glu Leu Ala Lys Pro Glu Asn Ser Asp Val
195 200 205
Thr Ile Gly Arg Gly Lys Lys Ala Ala Leu Tyr Ala Thr Pro Leu Phe
210 215 220
Leu Cys Val Ala Val Val Glu Leu Ser Asp Val Met Phe Ala Phe Asp
225 230 235 240
Ser Val Pro Ala Ile Ile Ala Val Ser Arg Glu Pro Leu Ile Val Tyr
245 250 255

Ser Ala Met Met Phe Ala Ile Leu Gly Leu Arg Thr Leu Tyr Phe Val
 260 265 270
 Leu Glu Ala Leu Lys Gln Tyr Leu Val His Leu Glu Lys Ala Val Ile
 275 280 285
 Val Leu Leu Phe Phe Ile Ala Lys Leu Gly Leu Asn Ala Thr Asp
 290 295 300
 His Ile Trp His His Gly Tyr Ser Ile Ala Ala Thr Thr Ser Leu Tyr
 305 310 315 320
 Val Val Leu Gly Val Leu Ala Leu Gly Ile Leu Ala Ser Val Met Phe
 325 330 335
 Pro Gly Lys Pro Glu Ser Glu Glu Lys Gly Ser
 340 345

<210> 7830

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 7830

Thr Ile Thr Asn Arg Arg Gly Tyr Phe Met Ser Val Ser Leu Ser Lys
 1 5 10 15
 Gly Gly Asn Val Ser Leu Ser Lys Ala Ala Pro Ser Met Lys Asn Val
 20 25 30
 Leu Val Gly Leu Gly Trp Asp Ala Arg Ser Thr Asp Gly Gln Asp Phe
 35 40 45
 Asp Leu Asp Ala Ser Ala Phe Leu Leu Ala Ser Asn Gly Lys Val Arg
 50 55 60
 Gly Asp Ser Asp Phe Ile Phe Tyr Asn Asn Leu Thr Ser Ser Asp Gly
 65 70 75 80
 Ser Val Thr His Thr Gly Asp Asn Arg Thr Gly Glu Gly Asp Gly Asp
 85 90 95
 Asp Glu Ser Leu Lys Ile Lys Leu Asp Ala Val Pro Ser Glu Val Asp
 100 105 110
 Lys Ile Ile Phe Val Val Thr Ile His Asp Ala Gln Ala Arg Arg Gln
 115 120 125
 Ser Phe Gly Gln Val Ser Gly Ala Phe Ile Arg Leu Val Asn Asp Asp
 130 135 140
 Asn Gln Thr Glu Val Ala Arg Tyr Asp Leu Thr Glu Asp Ala Ser Thr
 145 150 155 160
 Glu Thr Ala Met Leu Phe Gly Glu Leu Tyr Arg His Asn Gly Glu Trp
 165 170 175
 Lys Phe Arg Ala Val Gly Gln Gly Tyr Ala Gly Gly Leu Ala Ser Val
 180 185 190
 Cys Ala Gln Tyr Gly Ile Asn Ala Ser
 195 200

<210> 7831

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7831

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Ala Lys Ala Pro Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro

65

70

75

<210> 7832

<211> 681

<212> PRT

<213> Enterobacter cloacae

<400> 7832

Gly	Met	Thr	Lys	Arg	Leu	Thr	Trp	Glu	Gln	Lys	Ser	Ile	Val	Ser	His
1				5					10					15	
Asp	Thr	Gly	His	Ala	Leu	Val	Lys	Ala	Val	Pro	Gly	Ser	Gly	Lys	Thr
		20						25					30		
Thr	Thr	Leu	Val	Lys	Arg	Val	Glu	Arg	Leu	Val	Lys	Thr	Gly	Thr	Asp
		35					40					45			
Pro	Arg	Ser	Ile	Leu	Ile	Leu	Met	Tyr	Asn	Lys	Ser	Ala	Gln	Val	Ser
	50					55					60				
Phe	Thr	Glu	Lys	Leu	Lys	Thr	Ala	Leu	Met	Ser	Ser	Val	Ile	Pro	Glu
65					70					75				80	
Ile	Arg	Thr	Phe	His	Ser	Leu	Ala	Leu	Lys	Ile	Val	Gly	Tyr	Gly	Glu
				85					90					95	
Arg	Gln	Gln	Ile	Ile	Lys	Lys	Lys	Asp	Leu	Ile	Thr	Pro	Ser	Asp	Tyr
			100					105					110		
Arg	Tyr	Glu	Gln	Leu	Val	Lys	Gln	Ala	Tyr	Arg	Tyr	Gly	Phe	Asp	His
		115					120					125			
Glu	Ala	Asn	Tyr	Ile	Asp	Pro	Asn	Glu	Ile	Glu	Asn	Phe	Glu	Leu	Phe
	130					135					140				
Ile	Ala	Arg	Cys	Arg	Ala	Ala	Ala	Val	Thr	Pro	Val	Asp	Ala	Ala	Asn
145					150					155					160
Asp	Pro	Thr	Phe	Ser	Asn	Ile	Lys	Arg	Glu	Phe	Ile	His	Ala	Tyr	Gly
				165					170					175	
Arg	Tyr	Cys	Glu	Leu	Leu	Glu	Glu	Asn	Ser	Leu	Arg	Thr	Phe	Asp	Asp
			180					185					190		
Cys	Leu	Ile	Glu	Ala	Val	Ala	Leu	Leu	Arg	Asn	Asp	Ser	Ser	Leu	Gly
		195					200					205			
Ala	His	Phe	Lys	His	Ile	Ile	Val	Asp	Glu	Tyr	Gln	Asp	Val	Asn	Leu
	210					215						220			
Ile	Gln	His	Asp	Met	Thr	Arg	Leu	Leu	Ser	Lys	Ser	Asp	Thr	Ser	Val
225					230					235					240
Met	Ala	Val	Gly	Asp	Val	Asn	Gln	Cys	Ile	Tyr	Glu	Trp	Arg	Gly	Ala
				245					250					255	
Arg	Pro	Asp	Phe	Ile	Gly	Gly	Leu	Phe	Glu	Arg	His	Tyr	Pro	Asn	Thr
			260					265						270	
Lys	Val	Phe	Gln	Leu	Ser	Cys	Thr	Phe	Arg	Phe	Gly	His	Glu	Leu	Ser
		275					280					285			
Leu	Met	Ala	Asn	Ser	Val	Ile	Arg	Arg	Asn	Ser	Thr	Lys	Leu	Thr	Lys
	290					295					300				
Leu	Cys	Val	Ser	His	Pro	Ser	Thr	Pro	Lys	Thr	Glu	Val	Arg	Leu	His
305					310					315					320
Phe	Asp	Asn	Cys	Leu	Ser	Lys	Val	Leu	Ser	Asn	Leu	Ser	Val	Ser	Ser
				325					330					335	
Gly	Thr	Gln	Ala	Ile	Leu	Ser	Arg	Thr	Lys	Ala	Asn	Leu	Ala	Glu	Ala
			340					345					350		
Glu	Ile	Ala	Leu	Arg	Leu	Cys	Gly	Leu	Pro	Tyr	Arg	Tyr	Leu	Asn	Gly
		355					360					365			
Ser	Ser	Ala	Leu	His	Thr	Arg	Thr	Glu	Ile	Gly	Ile	Leu	Val	Val	Gly
	370					375					380				
Val	Leu	Leu	Ser	Val	Tyr	Gly	Asp	Leu	Arg	Leu	Leu	Glu	Asn	His	Pro
385					390					395					400
Asn	Lys	Gln	Ala	Ile	Val	Tyr	Gly	Phe	Leu	Lys	Glu	Ala	Gly	Phe	Ser
				405					410					415	
Trp	Gln	Lys	Gly	Gln	Phe	Lys	Ala	Ala	Leu	Ser	Gly	Leu	Met	Ala	Pro

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<210> 7833
<211> 816
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Leu	Thr	Ala	Gln 5	Val	Glu	Lys	Gln	His 10	Lys	Ser	Ala	Leu	Asp 15	Ser
Leu	Leu	Ile	Ser	Glu	Gly	Glu	Gln	Ala	Ser	Arg	Leu	Ala	Leu	Leu	Leu
			20					25					30		
Gln	Pro	Pro	Gly	Lys	Ile	Asn	Gly	Lys	Asn	Val	Leu	Gln	His	Ile	Asp
		35					40					45			
Arg	Leu	Asn	Ser	Ile	Ala	Ala	Leu	Gly	Leu	Pro	Asp	Gly	Ile	Ala	Leu
	50					55					60				
Ser	Val	His	Gln	Asn	Arg	Leu	Leu	Lys	Leu	Ala	Arg	Glu	Gly	Arg	Lys
65					70					75					80
Met	Ser	Ser	Arg	Asp	Leu	Ala	Lys	Phe	Thr	Asp	Val	Arg	Arg	Tyr	Ala
				85					90					95	
Thr	Leu	Val	Cys	Ile	Ile	Thr	Glu	Ala	Arg	Ala	Thr	Leu	Thr	Asp	Glu
			100					105					110		
Val	Ile	Asp	Leu	His	Glu	Arg	Ile	Leu	Gly	Ser	Leu	Phe	Ser	Arg	Ala
		115					120					125			
Lys	Arg	Thr	Gln	Ala	Glu	Arg	Leu	Gln	Gln	Thr	Gly	Lys	Leu	Ile	Gln
	130					135					140				
Ser	Lys	Leu	Lys	Gln	Tyr	Val	Thr	Val	Gly	Gln	Ala	Leu	Leu	Asn	Ala
145					150					155					160
Arg	Glu	Ser	Gly	Glu	Asp	Pro	Trp	Thr	Ala	Ile	Glu	Asp	Val	Leu	Pro

				165						170						175	
Trp	Gln	Glu	Phe	Ile	Asn	Ser	Val	Glu	Glu	Thr	Arg	Phe	Leu	Ser	Arg		
			180					185					190				
Lys	Gly	Asn	Phe	Asp	Ala	Leu	His	Leu	Ile	Thr	Glu	Lys	Tyr	Ser	Thr		
		195					200					205					
Leu	Arg	Lys	Tyr	Ala	Pro	Arg	Met	Leu	Ser	Ala	Leu	Gln	Phe	Met	Ala		
	210					215					220						
Thr	Pro	Ala	Ala	Gln	Ala	Leu	Ser	Asp	Ala	Leu	Asp	Thr	Ile	Thr	Glu		
225				230					235						240		
Met	Tyr	Arg	Lys	Gln	Leu	Arg	Lys	Val	Pro	Pro	Ser	Ala	Pro	Thr	Gly		
			245					250					255				
Phe	Ile	Pro	Glu	Ser	Trp	Arg	Lys	Leu	Val	Leu	Thr	Pro	Ser	Gly	Ile		
		260						265				270					
Asp	Arg	Lys	Tyr	Tyr	Glu	Phe	Cys	Val	Leu	Asn	Glu	Leu	Lys	Gly	Ala		
		275				280					285						
Leu	Arg	Ser	Gly	Asp	Ile	Trp	Val	Lys	Gly	Ser	Arg	Arg	Tyr	Lys	Asn		
	290					295				300							
Phe	Asp	Asp	Tyr	Leu	Ile	Pro	Thr	Ala	Glu	Phe	Glu	Lys	Ser	Arg	His		
305				310					315						320		
Asn	Asp	Gln	Leu	Gln	Leu	Ala	Val	Gln	Thr	Asp	Ser	Gln	Ala	Tyr	Leu		
			325					330				335					
Gln	Ala	Arg	Met	Thr	Leu	Leu	Ala	Ser	Arg	Leu	Glu	Glu	Val	Asn	Ala		
		340						345				350					
Met	Ala	Leu	Ala	Gly	Asp	Leu	Pro	Asp	Val	Asp	Ile	Ser	Asp	Lys	Gly		
		355					360				365						
Val	Lys	Ile	Thr	Pro	Leu	Glu	Asn	Ser	Val	Pro	Ser	Gly	Val	Ser	Pro		
	370					375				380							
Phe	Ala	Gly	Leu	Val	Tyr	Gly	Met	Leu	Pro	His	Pro	Lys	Ile	Thr	Glu		
385				390					395						400		
Ile	Leu	Glu	Glu	Val	Asp	Ser	Trp	Thr	Gly	Phe	Thr	Arg	His	Phe	Ala		
			405						410					415			
His	Leu	Lys	Asn	Asn	Asn	Val	Arg	Pro	Lys	Asp	Gly	Arg	Leu	Leu	Leu		
			420					425				430					
Thr	Thr	Ile	Leu	Ala	Asp	Gly	Ile	Asn	Leu	Gly	Leu	Thr	Lys	Met	Ala		
		435				440				445							
Glu	Ser	Cys	Pro	Gly	Ala	Thr	Arg	Ser	Ser	Leu	Glu	Gly	Ile	Gln	Ala		
	450					455				460							
Trp	Tyr	Ile	Arg	Asp	Glu	Thr	Tyr	Ser	Ala	Ala	Leu	Ala	Glu	Leu	Val		
465				470					475						480		
Asn	Ala	Gln	Lys	Glu	Arg	Pro	Leu	Ala	Ala	Phe	Trp	Gly	Asp	Gly	Thr		
			485					490				495					
Thr	Ser	Ser	Ser	Asp	Gly	Gln	Asn	Phe	Arg	Val	Gly	Ser	His	Gly	Arg		
		500						505				510					
Tyr	Ala	Gly	Gln	Val	Asn												

Lys Leu Ala Ser Tyr Pro Lys Gln Asn Gly Leu Ala Lys Ala Leu Arg
 660 665 670
 Glu Ile Gly Arg Ile Glu Arg Thr Leu Phe Met Leu Asp Trp Phe Arg
 675 680 685
 Asp Pro Gly Leu Arg Arg Arg Val Gln Ala Gly Leu Asn Lys Gly Glu
 690 695 700
 Ala Arg Asn Ala Leu Ala Arg Ala Val Phe Leu His Arg Leu Gly Glu
 705 710 715 720
 Ile Arg Asp Arg Gly Leu Glu Asn Gln Ser Tyr Arg Ala Ser Gly Leu
 725 730 735
 Thr Leu Leu Thr Ala Ala Ile Thr Leu Trp Asn Thr Val Tyr Ile Glu
 740 745 750
 Arg Ala Ile Glu Ser Leu Lys Arg Lys Gly Ile Pro Ile Asn Glu Gln
 755 760 765
 Leu Val Ser His Leu Ser Pro Leu Gly Trp Glu His Ile Asn Leu Ser
 770 775 780
 Gly Asp Tyr Val Trp Arg Asn Asn Leu Lys Leu Gly Ser Gly Lys Tyr
 785 790 795 800
 Arg Ser Leu Arg Thr Val Asp Thr Ala Leu Tyr Lys Lys Gln Ser
 805 810 815

<210> 7834

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7834

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
 1 5 10 15
 Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
 20 25 30
 Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
 35 40 45
 Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly
 50 55 60
 Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys
 65 70 75 80
 Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn Lys Asn
 85 90 95
 Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg Pro Ser
 100 105 110
 Met Arg Phe Val Gln Pro Arg Thr Glu Ser Gln Gln Ala Met Arg Ala
 115 120 125
 Leu His Arg Val Arg Glu Ser Leu Val Gln Asp Lys Val Lys Thr Thr
 130 135 140
 Asn Gln Met His Ala Phe Leu Leu Glu Phe Gly Ile Ser Val Pro Arg
 145 150 155 160
 Gly Ala Ala Val Ile Ser Arg Leu Ser Thr Leu Leu Glu Asp Asn Ser
 165 170 175
 Leu Pro Leu Tyr Leu Ser Gln Leu Leu Leu Lys Leu Gln Gln His Tyr
 180 185 190
 His Tyr Leu Val Glu Gln Ile Lys Asp Leu Glu Ser Gln Leu Lys Arg
 195 200 205
 Lys Leu Asp Glu Asp Glu Ile Gly Gln Arg Leu Leu Ser Ile Pro Cys
 210 215 220
 Val Gly Thr Leu Thr Ala Ser Thr Ile Ser Thr Glu Ile Gly Asp Gly
 225 230 235 240
 Lys Gln Tyr Ala Ser Arg Asp Phe Ala Ala Ala Thr Gly Leu Val
 245 250 255
 Pro Arg Gln Tyr Ser Thr Gly Gly Arg Thr Thr Leu Leu Gly Ile Ser
 260 265 270

Lys Arg Gly Asn Lys Lys Ile Arg Thr Leu Leu Val Gln Cys Ala Arg
 275 280 285
 Val Phe Ile Gln Lys Leu Glu His Gln Ser Gly Lys Leu Ala Asp Trp
 290 295 300
 Val Arg Asp Leu Leu Cys Arg Lys Ser Asn Phe Val Val Thr Cys Ala
 305 310 315 320
 Leu Ala Asn Lys Leu Ala Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln
 325 330 335
 Gln Thr Tyr Val Ala
 340

<210> 7835

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7835

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7836

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 7836

Ala Ala Val His Ser Thr Ala Ser Arg Ser Thr Thr Tyr His Leu Pro
 1 5 10 15
 Ala Val Arg Ser Val Leu Ser Trp Ile Phe Leu Gly Gly Tyr Ala Val
 20 25 30
 Met Thr Thr Gln Ser Ser Ser Ile Gln Tyr Ala Tyr Ala Leu Asp Gly
 35 40 45
 Glu Gly Thr Leu Thr His Ile Gly Ala Ala Leu Arg Ser His Thr Tyr
 50 55 60
 Thr Cys Pro Gly Cys Lys Ser Pro Leu Thr Pro Val Met Gly Glu Phe
 65 70 75 80
 Asn Ala Lys His Phe Arg His Ser Glu Glu Cys Cys Ala Leu Glu Thr
 85 90 95
 Tyr Leu His Lys Cys Gly Lys Glu Ala Phe Phe Tyr Arg Tyr Gln Gln
 100 105 110
 Ala Leu Ser Arg Glu Met Pro Ile Ser Leu Glu Leu Glu Arg Arg Val
 115 120 125
 Ala Cys Asn Gly Ser His Leu Ala Leu Val Arg Asp Glu Ala Arg Gln
 130 135 140
 Cys Val Lys Ser Val Pro Ala Arg Tyr Asn Leu Thr Gln Phe Phe Asp
 145 150 155 160
 Gln Ala Glu Leu Glu Lys His Asp Lys Val Thr Gly Leu Arg Pro Asp
 165 170 175
 Val Met Leu Tyr Asp Thr Thr Gly Glu Arg Arg Cys Tyr Val Glu Ile


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<210> 7837
<211> 876
<212> PRT
<213> Enterobacter cloacae
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<400> 7837															
Arg 1	Leu	Phe	Phe	Glu 5	Ile	Leu	Arg	Val	Arg 10	Cys	Phe	Phe	Cys	Ser 15	Asp
Trp	His	Ala	Thr 20	Pro	Gly	Asn	Ile	Arg 25	Arg	Tyr	Val	Leu	Tyr 30	Leu	Tyr
Ile	Glu	Thr 35	Leu	Lys	Gln	Arg	Leu 40	Asp	Ala	Ile	Asn 45	Gln	Leu	Arg	Val
Asp	Arg 50	Ala	Leu	Ala	Ala 55	Met	Gly	Pro	Ala	Phe	Gln 60	Gln	Val	Tyr	Ser
Leu 65	Leu	Pro	Thr	Leu	Leu 70	His	Tyr	His	His 75	Pro	Leu	Met	Pro	Gly 80	Tyr
Leu	Asp	Gly	Asn 85	Val	Pro	Gln	Gly	Ile	Cys 90	Leu	Phe	Thr	Pro	Asp 95	Glu
Thr	Gln	Gln	His 100	Tyr	Leu	Thr	Glu	Leu 105	Glu	Leu	Tyr	Arg	Gly 110	Met	Pro
Pro	Gln	Asp 115	Ser	Pro	Lys	Gly	Glu 120	Leu	Pro	Ile	Thr	Gly 125	Val	Tyr	Ser
Met	Gly 130	Ser	Thr	Ser	Ser	Val 135	Gly	Gln	Ser	Cys	Ser 140	Ser	Asp	Leu	Asp
Ile 145	Trp	Val	Cys	His 150	Gln	Ser	Trp	Leu	Asp 155	Asn	Glu	Glu	Arg	Gln	Leu 160
Leu	Gln	Arg	Lys 165	Cys	Ser	Leu	Leu	Glu	Ser 170	Trp	Ala	Ala	Ser	Leu 175	Gly
Val	Glu	Val	Ser 180	Phe	Phe	Leu	Ile	Asp 185	Glu	Asn	Arg	Phe	Arg 190	His	Asn
Glu	Ser	Gly 195	Ser	Leu	Gly	Gly	Glu 200	Asp	Cys	Gly	Ser	Thr 205	Gln	His	Ile
Leu	Leu	Leu	Asp 210	Glu	Phe	Tyr 215	Arg	Thr	Ala	Val	Arg 220	Leu	Ala	Gly	Lys
Arg 225	Ile	Leu	Trp	Asn 230	Met	Val	Pro	Cys	Asp 235	Glu	Glu	Asn	Tyr	Asp 240	
Asp	Tyr	Val	Met	Ser	Leu	Tyr	Ser	Gln	Gly	Val	Leu	Thr	Pro	Asn	Glu

				245					250					255	
Trp	Leu	Asp	Leu	Gly	Gly	Leu	Ser	Ser	Leu	Ser	Ala	Glu	Glu	Tyr	Phe
			260					265					270		
Gly	Ala	Ser	Leu	Trp	Gln	Leu	Tyr	Lys	Ser	Ile	Asp	Ser	Pro	Tyr	Lys
		275					280					285			
Ala	Val	Leu	Lys	Thr	Leu	Leu	Leu	Glu	Ala	Tyr	Ser	Trp	Glu	Tyr	Pro
		290					295				300				
Thr	Pro	Arg	Leu	Leu	Ala	Lys	Asp	Ile	Lys	Gln	Arg	Leu	His	Asp	Gly
305					310					315					320
Glu	Ile	Val	Ser	Tyr	Gly	Leu	Asp	Ala	Tyr	Cys	Met	Met	Leu	Glu	Arg
				325					330					335	
Val	Thr	Glu	Tyr	Leu	Thr	Ala	Ile	Glu	Asp	Ala	Thr	Arg	Leu	Asp	Leu
			340					345					350		
Val	Arg	Arg	Cys	Phe	Tyr	Leu	Lys	Val	Cys	Glu	Lys	Leu	Ser	Arg	Glu
		355					360					365			
Arg	Ala	Cys	Val	Gly	Trp	Arg	Arg	Glu	Val	Val	Ser	Gln	Leu	Val	Lys
		370				375					380				
Glu	Trp	Gly	Trp	Asp	Glu	Ala	Arg	Leu	Ala	Met	Leu	Asp	Asn	Arg	Ala
385					390					395					400
Asn	Trp	Lys	Ile	Asp	Gln	Val	Arg	Glu	Ala	His	Asn	Glu	Leu	Leu	Asp
				405					410					415	
Ala	Met	Met	Gln	Ser	Tyr	Arg	Asn	Leu	Ile	Arg	Phe	Ala	Arg	Arg	Asn
			420					425					430		
Asn	Leu	Ser	Val	Ser	Ala	Ser	Pro	Gln	Asp	Ile	Gly	Val	Leu	Thr	Arg
		435					440					445			
Lys	Leu	Tyr	Ala	Ala	Phe	Glu	Ala	Leu	Pro	Gly	Lys	Val	Thr	Leu	Val
		450				455					460				
Asn	Pro	Gln	Ile	Ser	Pro	Asp	Leu	Ser	Glu	Pro	Asn	Leu	Thr	Phe	Ile
465					470					475					480
Tyr	Val	Pro	Pro	Gly	Arg	Ala	Asn	Arg	Thr	Gly	Trp	Tyr	Leu	Tyr	Asn
				485					490					495	
Arg	Ala	Pro	Ser	Met	Asp	Ser	Ile	Ile	Ser	His	Gln	Pro	Leu	Glu	Tyr
			500					505					510		
Asn	Arg	Tyr	Leu	Asn	Lys	Leu	Val	Ala	Trp	Ala	Trp	Phe	Asn	Gly	Leu
		515					520					525			
Leu	Thr	Ser	Arg	Thr	Arg	Leu	Phe	Ile	Lys	Gly	Asn	Glu	Val	Val	Asp
		530				535					540				
Leu	Ala	Lys	Leu	Gln	Glu	Met	Val	Ala	Asp	Val	Ser	His	His	Phe	Pro
545					550					555					560
Leu	Arg	Leu	Pro	Ala	Pro	Thr	Pro	Lys	Ala	Leu	Tyr	Ser	Pro	Cys	Glu
				565					570					575	
Ile	Arg	His	Leu	Ala	Ile	Ile	Val	Asn	Leu	Glu	Tyr	Asp	Pro	Thr	Ala
			580					585					590		
Ala	Phe	Arg	Asn	Gln	Val	Val	His	Phe	Asp	Phe	Arg	Lys	Leu	Asp	Val

Ala	Ile	Ser	His	Asn	Lys	Leu	His	Gly	Leu	Ser	Val	Gln	Val	Glu	Thr
			740					745					750		
Asn	His	Val	Lys	Leu	Pro	Gln	Val	Val	Asp	Gly	Phe	Ala	Ser	Glu	Gly
		755					760					765			
Ile	Ile	Gln	Phe	Phe	Phe	Glu	Glu	Ser	Gly	Asp	Asn	Ala	Gly	Phe	Asn
	770					775					780				
Ile	Tyr	Ile	Leu	Asp	Glu	Thr	Asn	Arg	Ala	Glu	Val	Tyr	His	His	Cys
785					790					795					800
Glu	Gly	Ser	Lys	Glu	Glu	Leu	Val	Arg	Asp	Val	Ser	Arg	Phe	Tyr	Ser
			805						810					815	
Ser	Ser	His	Asp	Arg	Phe	Thr	Tyr	Gly	Ser	Ser	Phe	Ile	Asn	Phe	Asn
			820					825					830		
Leu	Pro	Gln	Phe	Tyr	Gln	Ile	Val	Asn	Val	Asp	Gly	Arg	Ala	Gln	Val
		835					840					845			
Ile	Pro	Phe	Arg	Thr	Gln	Ala	Ile	Thr	Pro	Ala	Ala	Pro	Ala	Asn	Gln
	850					855					860				
Glu	Thr	Ala	Pro	Leu	Leu	Gln	Gln	Tyr	Phe	Ser					
865					870					875					

<210> 7838

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7838

Arg	Arg	Pro	Asp	Ser	Gly	Gln	Ser	Leu	Thr	Ile	Thr	Phe	Cys	Thr	Arg
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Ala	Met	Glu	Gln	Met	Met	Gln	Phe	Ser	Lys	Met	His	Gly	Leu	Gly	Asn
		20						25					30		
Asp	Phe	Met	Val	Val	Asp	Ala	Val	Thr	Gln	Asn	Val	Phe	Phe	Ser	Pro
		35					40					45			
Glu	Leu	Ile	Arg	Arg	Leu	Ala	Asp	Arg	His	Val	Gly	Val	Gly	Phe	Asp
	50					55					60				
Gln	Leu	Leu	Val	Val	Glu	Pro	Pro	Tyr	Asp	Pro	Asp	Leu	Asp	Phe	His
65					70					75					80
Tyr	Arg	Ile	Phe	Asn	Ala	Asp	Gly	Ser	Glu	Val	Ser	Gln	Cys	Gly	Asn
				85				90						95	
Gly	Ala	Arg	Cys	Phe	Ala	Arg	Phe	Val	Arg	Leu	Lys	Gly	Leu	Thr	Asn
			100					105					110		
Lys	Arg	Asp	Ile	Arg	Val	Ser	Thr	Ala	Asn	Gly	Arg	Met	Val	Leu	Ser
		115					120					125			
Val	Thr	Asp	Asp	Glu	Leu	Val	Arg	Val	Asn	Met	Gly	Glu	Pro	Asn	Phe
	130					135					140				
Glu	Pro	Ser	Ala	Val	Pro	Phe	Arg	Ala	Asn	Lys	Ala	Glu	Lys	Thr	Tyr
145					150					155					160
Ile	Met	Arg	Ala	Ala	Glu	Gln	Thr	Val	Leu	Cys	Gly	Val	Val	Ser	Met
				165					170					175	
Gly	Asn	Pro	His	Cys	Val	Ile	Gln	Val	Asp	Asp	Val	Gln	Thr	Ala	Ala
			180					185					190		
Val	Glu	Thr	Leu	Gly	Pro	Val	Leu	Glu	Ser	His	Glu	Arg	Phe	Pro	Glu
	195						200					205			
Arg	Ala	Asn	Ile	Gly	Phe	Met	Gln	Val	Val	Lys	Arg	Glu	His	Ile	Arg
	210					215					220				
Leu	Arg	Val	Tyr	Glu	Arg	Gly	Ala	Gly	Glu	Thr	Gln	Ala	Cys	Gly	Ser
225					230					235					240
Gly	Ala	Cys	Ala	Ala	Val	Ala	Val	Gly	Ile	Ser	Gln	Gly	Leu	Leu	Ala
				245					250					255	
Glu	Glu	Val	Arg	Val	Glu	Leu	Pro	Gly	Gly	Arg	Leu	Asp	Ile	Ala	Trp
			260					265					270		
Lys	Gly	Ala	Gly	His	Pro	Leu	Tyr	Met	Thr	Gly	Pro	Ala	Thr	His	Val
		275					280					285			

Tyr Asp Gly Phe Ile His Leu
290 295

<210> 7839

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7839

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Arg Gly Ala Ser Thr Arg Gln Thr Gly Glu Ile Met Arg Phe Tyr Arg
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Pro Leu Gly Gln Ile Ser Ala Leu Thr Phe Asp Leu Asp Asp Thr Leu
20      25      30
Tyr Asp Asn Arg Pro Val Ile Leu Arg Thr Glu Gln Glu Ser Leu Ala
35      40      45
Phe Val Gln Asn Tyr His Pro Ala Leu Lys Thr Met Gln Asn Lys Asp
50      55      60
Phe Gln Lys Leu Arg Gln Ser Leu Arg Glu Thr Glu Pro Glu Ile Tyr
65      70      75      80
His Asp Val Thr Glu Trp Arg Arg Arg Ala Val Glu Gln Ala Met Leu
85      90      95
Asn Ala Gly Leu Ser Ala Gln Asp Ala Ala Thr Gly Ala Glu Ala Ala
100     105     110
Met Glu Asn Phe Ala Lys Trp Arg Ser Arg Ile Asp Val Pro Gln Glu
115     120     125
Thr His Asp Thr Leu Ala Lys Leu Ala Glu Lys Trp Pro Leu Val Ala
130     135     140
Ile Thr Asn Gly Asn Ala Gln Pro Glu Leu Phe Gly Leu Gly Asn Tyr
145     150     155     160
Phe Gln Phe Val Leu Arg Ala Gly Pro His Gly Arg Ser Lys Pro Phe
165     170     175
Asn Asp Met Tyr His Leu Ala Ala Glu Lys Leu Asp Leu Pro Leu Gly
180     185     190
Glu Ile Leu His Val Gly Asp Asp Leu Thr Thr Asp Val Ala Gly Ala
195     200     205
Ile Arg Cys Gly Met Gln Ala Cys Trp Ile Lys Pro Glu Asn Ala Asp
210     215     220
Leu Met Thr Thr Pro Asp Ser Arg Leu Leu Pro His Val Glu Ile Ser
225     230     235     240
Arg Leu Ala Ser Leu Thr Thr Leu Ile
245     250

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<210> 7840

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7840

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Trp Ser Glu Thr Gln Phe Val Ser Val Cys Pro Pro Asn Cys Pro Ile
1      5      10      15
Phe Phe Ala Leu Gly Val Pro Val Met Leu Ser Ala Phe Gln Leu Glu
20      25      30
Asn Asn Arg Leu Thr Arg Leu Glu Ala Glu Glu Ser Gln Pro Leu Ile
35      40      45
Asp Ala Val Trp Val Asp Leu Val Glu Pro Asp Asp Asp Glu Arg Leu
50      55      60
Arg Val Gln Ser Glu Leu Gly Gln Ser Leu Ala Thr Arg Pro Glu Leu
65      70      75      80
Glu Asp Ile Glu Ala Ser Ala Arg Phe Phe Glu Asp Glu Asp Gly Leu
85      90      95
His Ile His Ser Phe Phe Phe Phe Glu Asp Ala Glu Asp His Ala Gly

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<210> 7841
<211> 308
<212> PRT
<213> Enterobacter cloacae
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Asn	Ala	Arg	Thr	Lys	Leu	Phe	Ile	Lys	Cys	His	His	Phe	Arg	Arg	Thr
1				5					10					15	
Pro	Pro	Met	Arg	Thr	Tyr	Leu	Gly	Trp	Leu	Leu	Ala	Ala	Val	Ala	Leu
			20					25					30		
Pro	Leu	Thr	Ala	Tyr	Ala	Gln	Glu	Ala	Thr	Ile	Lys	Glu	Val	His	Asp
		35					40					45			
Lys	Pro	Ala	Val	Lys	Gly	Ser	Ile	Ile	Ala	Asn	Met	Leu	Gln	Glu	His
	50					55					60				
Asp	Asn	Pro	Phe	Thr	Leu	Tyr	Pro	Tyr	Asp	Thr	Asn	Tyr	Val	Ile	Tyr
65					70					75				80	
Thr	Gln	Thr	Ser	Asp	Leu	Asn	Lys	Glu	Ala	Ile	Ser	Ser	Tyr	Asn	Trp
			85						90					95	
Ser	Asp	Asn	Ala	Arg	Lys	Asp	Glu	Val	Lys	Phe	Gln	Leu	Ser	Leu	Ala
			100					105					110		
Phe	Pro	Phe	Trp	Arg	Gly	Ile	Leu	Gly	Pro	Asn	Ser	Val	Leu	Gly	Ala
		115					120					125			
Ser	Tyr	Thr	Gln	Lys	Ser	Trp	Trp	Gln	Leu	Ser	Asn	Ser	Gly	Glu	Ser
	130					135					140				
Ser	Pro	Phe	Arg	Glu	Thr	Asn	Tyr	Glu	Pro	Gln	Leu	Phe	Leu	Gly	Phe
145				150						155				160	
Ala	Thr	Asp	Tyr	Glu	Phe	Ala	Gly	Trp	Thr	Leu	Arg	Asp	Val	Glu	Val
			165						170					175	
Gly	Tyr	Asn	His	Asp	Ser	Asn	Gly	Arg	Ser	Asp	Pro	Thr	Ser	Arg	Ser

			180					185				190					
Trp	Asn	Arg	Ile	Tyr	Thr	Arg	Leu	Met	Ala	Gln	Asn	Gly	Asn	Phe	Met		
		195					200					205					
Val	Glu	Val	Lys	Pro	Trp	Tyr	Val	Val	Gly	Ser	Thr	Asp	Asp	Asn	Pro		
		210					215					220					
Asp	Ile	Thr	Lys	Tyr	Met	Gly	Tyr	Tyr	Gln	Leu	Lys	Val	Gly	Tyr	Gln		
225					230					235					240		
Leu	Gly	Asp	Ala	Val	Leu	Ser	Ala	Lys	Gly	Gln	Tyr	Asn	Trp	Asn	Thr		
				245					250					255			
Gly	Tyr	Gly	Gly	Ala	Glu	Leu	Gly	Leu	Ser	Tyr	Pro	Val	Thr	Lys	His		
			260					265					270				
Val	Arg	Leu	Tyr	Thr	Gln	Val	Tyr	Ser	Gly	Tyr	Gly	Glu	Ser	Leu	Ile		
		275					280					285					
Asp	Tyr	Asn	Phe	Asn	Gln	Thr	Arg	Val	Gly	Val	Gly	Val	Met	Leu	Asn		
	290					295					300						
Asp	Ile	Phe															
305																	

<210> 7842

<211> 632

<212> PRT

<213> Enterobacter cloacae

<400> 7842

Thr	Leu	Lys	Phe	Leu	Ser	Gln	Ala	Leu	Lys	Ile	Ala	Pro	Val	Ser	Phe		
1				5					10					15			
Leu	Ala	Tyr	Gly	Val	Asn	Val	Ala	Gln	Ala	Glu	Val	Leu	Asn	Gln	Glu		
			20					25					30				
Ser	Leu	Ala	Lys	Gln	Val	Leu	His	Glu	Thr	Phe	Gly	Tyr	Gln	Gln	Phe		
		35					40					45					
Arg	Pro	Gly	Gln	Glu	Thr	Ile	Glu	Thr	Val	Leu	Glu	Gly	Arg	Asp			
	50					55				60							
Cys	Leu	Val	Val	Met	Pro	Thr	Gly	Gly	Gly	Lys	Ser	Leu	Cys	Tyr	Gln		
65				70					75					80			
Val	Pro	Ala	Leu	Val	Leu	Asn	Gly	Leu	Thr	Val	Val	Val	Ser	Pro	Leu		
				85				90					95				
Ile	Ser	Leu	Met	Lys	Asp	Gln	Val	Asp	Gln	Leu	Leu	Ala	Asn	Gly	Val		
		100						105					110				
Ala	Ala	Ala	Cys	Leu	Asn	Ser	Thr	Gln	Thr	Arg	Glu	Gln	Gln	Gln	Glu		
		115					120					125					
Val	Met	Ala	Gly	Cys	Arg	Thr	Gly	Gln	Val	Arg	Leu	Leu	Tyr	Ile	Ala		
	130					135					140						
Pro	Glu	Arg	Leu	Met	Leu	Asp	Asn	Phe	Leu	Asp	His	Leu	Ala	His	Trp		
145				150					155					160			
Asn	Pro	Val	Leu	Leu	Ala	Val	Asp	Glu	Ala	His	Cys	Ile	Ser	Gln	Trp		
			165					170						175			
Gly	His	Asp	Phe	Arg	Pro	Glu	Tyr	Ala	Ala	Leu	Gly	Gln	Leu	Arg	Gln		
		180					185					190					
Arg	Phe	Pro	Glu	Leu	Pro	Phe	Met	Ala	Leu	Thr	Ala	Thr	Ala	Asp	Asp		
	195						200					205					
Thr	Thr	Arg	Gln	Asp	Ile	Val	Arg	Leu	Leu	Gly	Leu	Asn	Asp	Pro	Tyr		
	210					215						220					
Ile	Gln	Val	Ser	Ser	Phe	Asp	Arg	Pro	Asn	Ile	Arg	Tyr	Met	Leu	Met		
225					230					235					240		
Glu	Lys	Phe	Lys	Pro	Leu	Asp	Gln	Leu	Leu	Arg	Tyr	Val	Gln	Glu	Gln		
			245						250					255			
Arg	Gly	Lys	Ser	Gly	Ile	Ile	Tyr	Cys	Asn	Ser	Arg	Ala	Lys	Val	Glu		
		260					265					270					
Asp	Thr	Ala	Ala	Arg	Leu	Gln	Asn	Arg	Gly	Phe	Ser	Ala	Ala	Ala	Tyr		
	275						280					285					
His	Ala	Gly	Leu	Glu	Asn	His	Ile	Arg	Ala	Asp	Val	Gln	Glu	Lys	Phe		

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<210> 7843
<211> 157
<212> PRT
<213> Enterobacter cloacae
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<400> 7843															
Ile	Thr	Gly	Gly	Gly	Asn	Pro	Met	Phe	Gln	Gln	Lys	Lys	Asp	Trp	Glu
1				5					10					15	
Thr	Arg	Glu	Asn	Ala	Phe	Ala	Ala	Phe	Ser	Met	Gly	Pro	Leu	Thr	Asp
			20					25					30		
Phe	Trp	Arg	Gln	Arg	Glu	Glu	Asp	Glu	Phe	Met	Gly	Val	Gly	Glu	Ile
		35					40					45			
Pro	Val	Arg	Phe	Val	Arg	Phe	Arg	Asp	Glu	Lys	Asn	Asp	Arg	Val	Ile
	50					55					60				
Val	Val	Cys	Pro	Gly	Arg	Ile	Glu	Ser	Tyr	Ile	Lys	Tyr	Ala	Glu	Leu
65					70					75					80
Ala	Tyr	Asp	Leu	Phe	His	Leu	Gly	Phe	Asp	Val	Leu	Ile	Ile	Asp	His

				85					90					95			
Arg	Gly	Gln	Gly	Leu	Ser	Gly	Arg	Met	Leu	Pro	Asp	Thr	His	Arg	Gly		
			100					105					110				
His	Val	Asp	Asn	Phe	Ser	Asp	Tyr	Val	Asp	Asp	Leu	Ala	Ala	Phe	Trp		
		115					120					125					
Gln	Gln	Glu	Val	Gln	Pro	Gly	Pro	Trp	Arg	Lys	Arg	Tyr	Ile	Leu	Ala		
		130				135					140						
His	Ser	Met	Gly	Gly	Ala	Ile	Ser	Thr	Leu	Phe	Leu						
145					150					155							

<210> 7844

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 7844

Gly	Gln	Asp	Pro	Ala	Val	Asp	Phe	Thr	Ile	Asp	Ile	Ala	Val	Ala	Val		
1				5				10					15				
Pro	Val	Val	Asp	Thr	Leu	Phe	Asp	Gly	His	Pro	Gln	Gly	Ile	Gly	Lys		
		20					25					30					
Ala	Met	Lys	Phe	Thr	Val	Val	His	Gly	Phe	Ile	Pro	Val	Phe	Arg	Asp		
		35					40					45					
Gly	Gly	Ser	Ile	Thr	Leu	Asn	Asn	Ser	Arg	Cys	Arg	Lys	Ala	Ala	Asn		
	50					55					60						
Ser	Cys	Phe	Cys	Val	Phe	Ser	Cys	Asp	Asp	Arg	Asn	Arg	Phe	Glu	Leu		
65				70				75						80			
Thr	Gly	Asn	Leu	Tyr	Met	Lys	Asn	Val	Phe	Arg	Thr	Leu	Val	Val	Leu		
				85				90					95				
Val	Thr	Leu	Phe	Ser	Leu	Thr	Gly	Cys	Gly	Leu	Lys	Gly	Pro	Leu	Tyr		
		100					105						110				
Phe	Pro	Pro	Glu	Asp	Lys	Asn	Ala	Pro	Pro	Pro	Thr	Lys	Pro	Val	Gln		
		115				120						125					
Ser	Gly	Ile	Glu	Ser	Ser	Thr	Pro	Asp	Thr	Asn	Asp	Arg	Gly	Asn	Asn		
	130					135					140						
Gly	Gly	Pro	Thr	Gln	Val	Asn	Leu										
145					150												

<210> 7845

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7845

Ala	Arg	Met	Thr	Asp	Gly	Leu	Leu	Ala	Thr	Asp	Val	Asn	Arg	Phe	Leu		
1				5				10						15			
Arg	Tyr	Leu	Gly	Val	Glu	Arg	Gln	Leu	Ser	Pro	Ile	Thr	Leu	Leu	Asn		
		20					25					30					
Tyr	Gln	Arg	Gln	Leu	Asp	Ala	Ile	Met	Gln	Ile	Ala	Asp	Glu	Ile	Gly		
		35					40					45					
Leu	Lys	Ser	Trp	Gln	Gln	Cys	Asp	Ala	Ala	Thr	Val	Arg	Gly	Phe	Val		
	50					55					60						
Val	Arg	Ser	Arg	Lys	Lys	Asn	Leu	Ser	Pro	Ala	Ser	Leu	Ala	Leu	Arg		
65				70				75						80			
Leu	Ser	Ala	Leu	Arg	Ser	Phe	Phe	Asp	Trp	Leu	Val	Ser	Gln	Gly	Gly		
				85				90					95				
Leu	Lys	Ala	Asn	Pro	Ala	Lys	Gly	Ile	Ala	Thr	Pro	Lys	Ala	Pro	Arg		
		100					105						110				
His	Leu	Pro	Lys	Asn	Ile	Asp	Val	Asp	Asp	Val	Asn	Arg	Leu	Leu	Asp		
		115				120						125					
Ile	Asp	Leu	Asn	Asp	Pro	Leu	Ala	Val	Arg	Asp	Arg	Ala	Met	Leu	Glu		
	130					135					140						


```

Val Met Tyr Gly Ala Gly Leu Arg Leu Ser Glu Leu Val Asn Leu Asp
145          150          155          160
Leu Lys His Leu Asp Leu Glu Ser Gly Glu Val Trp Val Met Gly Lys
          165          170          175
Gly Ser Lys Glu Arg Arg Leu Pro Ile Gly Arg Asn Ala Val Ser Trp
          180          185          190
Ile Glu His Trp Leu Asp Leu Arg Gly Leu Phe Gly Ala Asp Glu Asp
          195          200          205
Ala Leu Phe Leu Ser Lys Leu Gly Lys Arg Ile Ser Ala Arg Asn Val
          210          215          220
Gln Lys Arg Phe Ala Glu Trp Gly Ile Lys Gln Gly Leu Asn Ser His
225          230          235          240
Val His Pro His Lys Leu Arg His Ser Phe Ala Thr His Met Leu Glu
          245          250          255
Ser Ser Gly Asp Leu Arg Gly Val Gln Glu Leu Leu Gly His Ala Asn
          260          265          270
Leu Ser Thr Thr Gln Ile Tyr Thr His Leu Asp Phe Gln His Leu Ala
          275          280          285
Ser Val Tyr Asp Ala Ala His Pro Arg Ala Lys Arg Gly Lys
          290          295          300

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<210> 7846

<211> 739

<212> PRT

<213> Enterobacter cloacae

<400> 7846

```

Gln Gly Phe Gly Glu Trp Lys His Leu Pro Ala Arg His Asp Val Thr
1          5          10          15
Val Pro Met Asp Val Ser Tyr Leu Leu Asp Ser Leu Asn Asp Lys Gln
          20          25          30
Arg Asp Ala Val Ala Ala Ser Arg Thr Asn Leu Leu Val Leu Ala Gly
          35          40          45
Ala Gly Ser Gly Lys Thr Arg Val Leu Val His Arg Ile Ala Trp Leu
          50          55          60
Gln Ser Val Glu Asn Cys Ser Pro Tyr Ser Ile Met Ala Val Thr Phe
65          70          75          80
Thr Asn Lys Ala Ala Glu Met Arg His Arg Ile Ala Gln Leu Met
          85          90          95
Gly Thr Ser Gln Gly Gly Met Trp Val Gly Thr Phe His Gly Leu Ala
          100          105          110
His Arg Leu Leu Arg Ala His His Met Asp Ala Asn Leu Pro Gln Asp
          115          120          125
Phe Gln Ile Leu Asp Ser Glu Asp Gln Leu Arg Leu Leu Lys Arg Leu
          130          135          140
Ile Lys Ala Met Asn Leu Asp Glu Lys Gln Trp Pro Pro Arg Gln Ala
145          150          155          160
Met Trp Tyr Ile Asn Gly Gln Lys Asp Glu Gly Leu Arg Pro His His
          165          170          175
Ile Gln Ser Phe Gly Asn Pro Val Glu Gln Thr Trp Gln Asn Val Tyr
          180          185          190
Lys Ala Tyr Gln Glu Ala Cys Asp Arg Ala Gly Leu Val Asp Phe Ala
          195          200          205
Glu Leu Leu Leu Arg Ala His Glu Leu Trp Leu Asn Lys Pro His Ile
          210          215          220
Leu Gln His Tyr Arg Glu Arg Phe Thr Asn Ile Leu Val Asp Glu Phe
225          230          235          240
Gln Asp Thr Asn Asn Ile Gln Tyr Ala Trp Ile Arg Leu Leu Ala Gly
          245          250          255
Asp Thr Gly Lys Val Met Ile Val Gly Asp Asp Asp Gln Ser Ile Tyr
          260          265          270

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<210> 7847
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 7847

```

Leu Thr Val Leu Phe Pro Arg Glu Leu Ile Met Leu Met Leu Phe Leu
1      5      10      15
Thr Val Ala Leu Val His Ile Val Ala Leu Met Ser Pro Gly Pro Asp
20      25      30
Phe Phe Phe Val Ser Gln Thr Ala Val Ser Arg Ser Arg Lys Glu Ala
35      40      45
Met Met Gly Val Leu Gly Ile Thr Met Gly Val Met Val Trp Ala Ala
50      55      60
Val Ala Leu Leu Gly Leu Asn Leu Ile Leu Ala Lys Met Ala Trp Leu
65      70      75      80
His Asn Ile Ile Met Val Gly Gly Gly Leu Tyr Leu Cys Trp Met Gly
85      90      95
Tyr Gln Met Leu Arg Gly Ala Leu Lys Lys Glu Glu Ser Lys Pro Glu
100     105     110
Glu Pro Lys Val Glu Leu Ala Thr Gly Gly Arg Ser Phe Val Lys Gly
115     120     125
Leu Leu Thr Asn Leu Ala Asn Pro Lys Ala Ile Ile Tyr Phe Gly Ser
130     135     140
Val Phe Ser Leu Phe Val Gly Asp Asn Val Gly Ala Gly Ala Arg Trp
145     150     155     160
Gly Ile Phe Leu Leu Ile Val Val Glu Thr Phe Ala Trp Phe Thr Val
165     170     175
Val Ala Ser Leu Phe Ala Leu Pro Ala Met Arg Arg Gly Tyr Gln Arg
180     185     190
Ile Ala Lys Trp Ile Asp Gly Phe Ala Gly Ala Leu Phe Ala Gly Phe
195     200     205
Gly Ile His Leu Ile Ile Ser Arg
210     215

```

<210> 7848
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 7848

```

Arg Val Tyr Pro Ser Met Lys Gln Pro Gly Glu Glu Leu Arg Glu Pro
1      5      10      15
Val Thr Glu Leu Asp Asp Ser Thr Val Val Asp Tyr Leu Leu His Asn
20      25      30
Pro Glu Phe Phe Ile Arg Asn Ala Arg Val Val Glu Arg Met Arg Val
35      40      45
Pro His Pro Val Arg Glu Thr Val Ser Leu Val Glu Trp His Met Ala
50      55      60
Arg Ser Arg Asn His Ile Asn Gln Leu Glu Glu Asn Met Thr Leu Leu
65      70      75      80
Met Glu Gln Ala Ser Asn Asn Glu Ser Leu Phe Tyr Arg Leu Leu His
85      90      95
Leu Gln Ala Arg Leu Ala Ser Ala His Ser Leu Glu Glu Phe Leu Asn
100     105     110
Arg Phe His Arg Trp Ala Arg Glu Leu Gly Leu Ala Gly Ala Thr Ile
115     120     125
Arg Leu Phe Pro Asp Arg Trp Arg Ile Gly Ala Pro Ser Gly Phe Thr
130     135     140
His Leu Ala Leu Ser Arg Gln Ala Phe Glu Pro Leu Arg Ile Gln Arg
145     150     155     160

```

Leu	Gly	His	Glu	His	His	Tyr	Leu	Gly	Pro	Leu	Asn	Gly	Pro	Glu	Leu
				165					170					175	
Leu	Val	Val	Leu	Pro	Glu	Ala	Lys	Ala	Ile	Gly	Ser	Val	Ala	Met	Ser
			180					185					190		
Leu	Met	Gly	Arg	Asp	Gly	Asp	Leu	Gly	Val	Met	Leu	Phe	Thr	Ser	Arg
		195					200					205			
Asp	Ala	His	His	Tyr	Glu	Gln	Gly	Gln	Gly	Thr	Gln	Leu	Leu	Gln	Glu
	210					215					220				
Ile	Ala	Leu	Met	Leu	Pro	Glu	Leu	Leu	Glu	Arg	Trp	Ile	Glu	Arg	Val
225					230					235					240

```
<210> 7849
<211> 215
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7850
<211> 418
<212> PRT
<213> Enterobacter cloacae
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<400> 7850															
Lys	Arg	Arg	Gln	Arg	Cys	Ala	Ala	Ala	Arg	Ile	Thr	Ile	Thr	Leu	Lys
1				5					10					15	
Trp	Glu	Ala	Ile	Met	Thr	Glu	His	Glu	Lys	Ser	Ser	Ala	Val	Val	Glu
			20					25					30		
Glu	Thr	Arg	Glu	Thr	Val	Asp	Thr	Thr	Ser	Gln	Pro	Glu	Thr	Thr	Asp
		35					40					45			
Thr	Thr	Val	Glu	Lys	Lys	Asn	Gly	Ser	Asn	Lys	Thr	Ser	Leu	Thr	Leu

50 55 60
 Ser Val Ile Ala Ile Ala Ile Ala Leu Ala Ala Gly Val Gly Leu Tyr
 65 70 75 80
 Gly Leu Val Lys Lys Gln Gly Thr Asn Gln Thr Ala Thr Ser Asp Ala
 85 90 95
 Leu Val Asn Gln Ile Thr Ala Leu Gln Lys Ala Gln Glu Thr Gln Lys
 100 105 110
 Ala Glu Leu Glu Gly Val Ile Lys Gln Gln Ala Ala Ala Leu Ala Asp
 115 120 125
 Ala Asn Ser Lys Arg Glu Glu Leu Thr Lys Gln Leu Ser Glu Val Gln
 130 135 140
 Glu Lys Val Ala Thr Ile Ser Gly Thr Asp Ala Lys Thr Trp Leu Leu
 145 150 155 160
 Ser Gln Ala Asp Phe Leu Val Lys Leu Ala Gly Arg Lys Leu Trp Ser
 165 170 175
 Asp Gln Asp Val Thr Thr Ala Ala Ala Leu Leu Lys Ser Ala Asp Ala
 180 185 190
 Ser Leu Ala Asp Met Asn Asp Pro Ser Leu Ile Asn Ala Arg Arg Ala
 195 200 205
 Ile Thr Glu Asp Ile Ala Ser Leu Ser Ala Val Ser Gln Val Asp Tyr
 210 215 220
 Asp Gly Ile Ile Leu Lys Val Asn Gln Leu Ser Asn Gln Ile Asp Asn
 225 230 235 240
 Leu Gln Leu Ala Asp Asn Asn Asp Asp Asp Ser Pro Met Asp Ser Asp
 245 250 255
 Gly Thr Glu Leu Ser Ser Ser Leu Ser Glu Trp Arg Ile Asn Leu Gln
 260 265 270
 Lys Ser Trp Gln Asn Phe Met Asp Ser Phe Ile Thr Ile Arg Arg Arg
 275 280 285
 Asp Glu Thr Ala Val Pro Leu Leu Ala Pro Asn Gln Asp Val Tyr Leu
 290 295 300
 Arg Glu Asn Ile Arg Ser Arg Leu Leu Val Ala Ala Gln Ala Val Pro
 305 310 315 320
 Arg His Gln Glu Glu Thr Tyr Lys Gln Ala Leu Asp Asn Val Ser Thr
 325 330 335
 Trp Val Arg Ala Tyr Tyr Asp Thr Asn Asp Ala Thr Thr Thr Ala Phe
 340 345 350
 Leu Glu Asp Ile Asp Lys Leu Ser Gln Gln Asn Ile Thr Met Asn Val
 355 360 365
 Pro Asp Lys Leu Glu Ser Gln Pro Ile Leu Glu Lys Ile Met Gln Thr
 370 375 380
 Arg Val Arg Asn Leu Leu Ala Gln Pro Gly Val Pro Ala Glu Arg Pro
 385 390 395 400
 Ala Glu Ala Pro Ala Ala Ala Pro Ala Pro Glu Ser Ala Pro Gln Gly
 405 410 415
 Glu

<210> 7851

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7851

Leu Pro Leu Pro Arg Phe Leu Lys Trp His Ser Phe Ile Leu Lys His
 1 5 10 15
 Lys Ile Asn Ile Leu Leu Thr Thr Arg Met Pro Leu Gln Met Ser Ala
 20 25 30
 Thr Leu Thr Ala Glu Glu Thr Leu Lys Leu Val Gly Glu Ile Phe Val
 35 40 45
 Tyr His Met Pro Phe Asn Arg Ala Leu Gly Leu Glu Leu Glu Arg Tyr

50		55		60	
Glu Lys Asp Phe Ala	Gln Leu Ser Phe Asn Asn	Gln Pro Met Met Val			
65	70	75			80
Gly Asn Trp Ala	Gln Ser Ile Leu His Gly Gly	Val Ile Ala Ser Ala			
	85	90			95
Leu Asp Val Ala Ala	Gly Leu Val Cys Val Gly	Ser Thr Leu Thr Arg			
	100	105			110
His Asp Thr Ile Asn	Glu Asp Glu Leu Arg Gln Arg	Leu Ser Arg Met			
	115	120			125
Gly Thr Ile Asp Leu	Arg Val Asp Tyr Leu Arg	Pro Gly Arg Gly Asn			
	130	135			140
Arg Phe Thr Cys Thr	Ser Ser Met Leu Arg Ala Gly	Asn Lys Val Ala			
145	150	155			160
Val Ala Arg Val Glu	Leu His Asn Glu Glu Gln	Val Tyr Ile Ala Ser			
	165	170			175
Ala Thr Ala Thr Tyr	Met Val Gly				
	180	185			

<210> 7852

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7852

Arg Ile Phe Pro Met	Asp Ala Lys Gln Thr Arg	Gln Gly Val Leu Leu		
1	5	10		15
Ala Leu Ala Ala Tyr	Phe Ile Trp Gly Ile Ala	Pro Ala Tyr Phe Lys		
	20	25		30
Leu Ile Ala Tyr Val	Pro Ala Asp Glu Ile Leu	Thr His Arg Val Ile		
	35	40		45
Trp Ser Phe Phe Phe	Met Ile Ala Leu Met Ser	Ile Ser Arg Gln Trp		
	50	55		60
Ser Gly Val Lys Thr	Leu Leu Lys Thr Pro	Lys Lys Val Phe Leu Leu		
65	70	75		80
Ala Leu Ser Ala Val	Leu Ile Gly Gly Asn Trp	Leu Leu Phe Ile Trp		
	85	90		95
Ala Val Asn Asn His	His Met Leu Glu Ala Ser	Leu Gly Tyr Phe Ile		
	100	105		110
Asn Pro Leu Val Asn	Ile Leu Leu Gly Met Ile	Phe Leu Gly Glu Arg		
	115	120		125
Phe Arg Arg Met Gln	Trp Val Ala Val Ile Leu	Ala Phe Cys Gly Val		
	130	135		140
Leu Val Gln Leu Trp	Thr Phe Gly Ser Leu Pro	Val Ile Ala Leu Gly		
145	150	155		160
Leu Ala Phe Ser Phe	Ala Phe Tyr Gly Leu Val	Arg Lys Lys Ile Ala		
	165	170		175
Val Glu Ala Gln Thr	Gly Met Leu Phe Glu Thr	Leu Trp Leu Leu Pro		
	180	185		190
Val Ala Ala Ile Tyr	Leu Phe Gly Ile Ala Asp	Ser Ala Thr Ser His		
	195	200		205
Met Gly Ser Asn Pro	Trp Ser Leu Asn Leu Met	Leu Ile Ala Ala Gly		
	210	215		220
Val Val Thr Thr Ile	Pro Leu Leu Cys Phe Thr	Gly Ala Ala Thr Arg		
225	230	235		240
Leu Arg Leu Ser Thr	Leu Gly Phe Phe Gln Tyr	Ile Gly Pro Thr Leu		
	245	250		255
Met Phe Leu Leu Ala	Val Val Phe Tyr Gly Glu	Val Pro Gly Ala Asp		
	260	265		270
Lys Met Val Thr Phe	Ala Phe Ile Trp Val Ala	Leu Ala Ile Phe Val		
	275	280		285
Ala Asp Ala Ile Tyr	Thr Gln Arg Arg Val Arg	Lys Gly Leu		

290

295

300

<210> 7853

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 7853

Arg	Arg	Ala	Pro	Cys	Met	Ser	Ile	Leu	Val	Thr	Arg	Pro	Ser	Pro	Ala
1				5					10					15	
Gly	Glu	Gln	Leu	Val	Ser	Arg	Leu	Arg	Ala	Leu	Gly	Gln	Val	Ala	Trp
			20					25					30		
Ser	Phe	Pro	Leu	Ile	Glu	Phe	Ser	Pro	Gly	Arg	Glu	Leu	Pro	Glu	Leu
		35					40					45			
Ala	Asp	Gln	Met	Arg	Leu	Leu	Gln	Glu	Gly	Asp	Leu	Leu	Phe	Ala	Leu
	50					55					60				
Ser	Gln	His	Ala	Val	Glu	Phe	Ala	His	Ala	Gln	Leu	Gln	Gln	Gln	Gly
65					70				75						80
Val	Arg	Trp	Pro	His	Ala	Pro	Arg	Tyr	Phe	Ala	Ile	Gly	Arg	Thr	Thr
				85					90					95	
Ala	Leu	Ala	Leu	His	Thr	Ala	Ser	Gly	Ile	Asp	Val	Arg	Tyr	Pro	Leu
			100					105						110	
Asp	Arg	Glu	Ile	Ser	Glu	Val	Leu	Leu	Gln	Leu	Pro	Glu	Leu	Gln	Asn
		115					120					125			
Ile	Ala	Gly	Lys	Arg	Thr	Leu	Ile	Leu	Arg	Gly	Asn	Gly	Gly	Arg	Glu
	130					135					140				
Leu	Leu	Gly	Glu	Thr	Leu	Arg	Glu	Arg	Gly	Ala	Asp	Val	Thr	Phe	Val
145					150					155					160
Glu	Cys	Tyr	Gln	Arg	Cys	Ala	Lys	His	Tyr	Asp	Gly	Ala	Glu	Glu	Ala
				165					170						175
Met	Arg	Trp	His	Ala	Arg	Gly	Ile	Asn	Thr	Leu	Val	Val	Thr	Ser	Gly
			180					185						190	
Glu	Met	Leu	Gln	Gln	Leu	Trp	Ser	Leu	Ile	Pro	Leu	Trp	Tyr	Arg	Glu
		195					200					205			
Asn	Trp	Leu	Leu	Arg	Cys	Arg	Leu	Leu	Val	Val	Ser	Glu	Arg	Leu	Ala
	210					215					220				
Asn	His	Ala	Arg	Glu	Leu	Gly	Trp	Gln	Asp	Ile	Arg	Ile	Ala	Glu	Asn
225					230					235					240
Ala	Asp	Asn	Asp	Ala	Leu	Leu	Arg	Ala	Leu	Gln					
				245					250						

<210> 7854

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 7854

Arg	Tyr	Thr	Ala	Ala	Ile	Thr	Lys	Asn	Arg	Asn	Lys	Thr	Met	Asn	Asp
1				5					10					15	
Ser	Glu	Phe	His	Arg	Leu	Ala	Asp	Thr	Leu	Trp	Met	Thr	Ile	Glu	Glu
			20					25					30		
Arg	Ile	Asp	Asp	Trp	Asp	Gly	Asp	Ser	Asp	Ile	Asp	Cys	Glu	Ile	Asn
		35					40					45			
Gly	Gly	Ile	Leu	Thr	Leu	Ser	Phe	Glu	Asn	Gly	Ser	Lys	Ile	Ile	Ile
	50					55					60				
Asn	Arg	Gln	Glu	Pro	Leu	His	Gln	Val	Trp	Leu	Ala	Ala	Lys	Gln	Gly
65					70				75						80
Gly	Tyr	His	Phe	Asp	Leu	Lys	Gly	Asp	Glu	Trp	Val	Cys	Asp	Arg	Ser
				85					90					95	
Gly	Glu	Thr	Phe	Trp	Asp	Leu	Leu	Glu	Gln	Ala	Ala	Thr	Ala	Gln	Ala
			100					105					110		

Gly Glu Asp Val Ser Phe Arg
115 120

<210> 7855

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7855

Arg Leu Ile Met Thr Val Thr Ser Met Leu Asp Asn Val Leu Arg Ile
1 5 10 15
Ala Thr Arg Gln Ser Pro Leu Ala Leu Trp Gln Ala His Tyr Val Lys
20 25 30
Gln Arg Leu Glu Ala Cys His Thr Gly Leu Arg Val Glu Leu Val Pro
35 40 45
Met Val Thr Arg Gly Asp Val Ile Leu Asp Thr Pro Leu Ala Lys Val
50 55 60
Gly Gly Lys Gly Leu Phe Val Lys Glu Leu Glu Leu Ala Leu Leu Glu
65 70 75 80
Asn Arg Ala Asp Ile Ala Val His Ser Met Lys Asp Val Pro Val Glu
85 90 95
Phe Pro Glu Gly Leu Gly Leu Val Thr Ile Cys Glu Arg Glu Asp Pro
100 105 110
Arg Asp Ala Phe Val Ser Asn Arg Tyr Asp Ser Leu Asp Ala Leu Pro
115 120 125
Ala Gly Ser Val Val Gly Thr Ser Ser Leu Arg Arg Gln Cys Gln Leu
130 135 140
Ala Glu Arg Arg Pro Asp Leu Val Ile Arg Ser Leu Arg Gly Asn Val
145 150 155 160
Gly Thr Arg Leu Gly Lys Leu Asp Asn Gly Asp Tyr Asp Ala Ile Ile
165 170 175
Leu Ala Val Ala Gly Leu Lys Arg Leu Gly Leu Glu Glu Arg Ile Arg
180 185 190
Val Ala Leu Pro Pro Glu Leu Ser Leu Pro Ala Val Gly Gln Gly Ala
195 200 205
Val Gly Ile Glu Cys Arg Leu Asp Asp Val Arg Thr Gln Ala Leu Leu
210 215 220
Ala Pro Leu Asn His Asp Asp Thr Ala Val Arg Val Lys Ala Glu Arg
225 230 235 240
Ala Met Asn Thr Arg Leu Glu Gly Gly Cys Gln Val Pro Ile Gly Ser
245 250 255
Tyr Ala Glu Leu Thr Asp Gly Glu Leu Trp Leu Arg Ala Leu Val Gly
260 265 270
Ala Pro Asp Gly Ser His Met Val Arg Gly Glu Arg Arg Gly Lys Pro
275 280 285
Gln Asp Ala Glu Ala Leu Gly Val Ser Leu Ala Glu Glu Leu Leu Asn
290 295 300
Asn Gly Ala Arg Glu Ile Leu Ala Glu Val Tyr Asn Gly Glu Pro Pro
305 310 315 320
Ala

<210> 7856

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 7856

Lys Arg Ala Ala Arg Arg Val Met Met Leu Lys Val Phe Leu Leu Phe
1 5 10 15
Ile Leu Leu Ile Ala Gly Ile Val Leu Gly Pro Met Leu Ala Gly His


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<210> 7857
<211> 408
<212> PRT
<213> Enterobacter cloacae
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Lys	Asp	Ile	Val	Met	Asn	Ser	Leu	Leu	Tyr	Ala	Leu	Phe	Glu	Ala	Leu
1				5					10					15	
Arg	Cys	Tyr		Trp	Leu	Arg	Leu	Leu	Ala	Cys	Ala	Phe	Ile	Phe	Ser
			20					25					30		
Ser	Leu	Gly	Asn	Gly	Leu	Thr	Gln	Val	Val	Val	Phe	Gly	Leu	Leu	Leu

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<210> 7858
<211> 1027
<212> PRT
<213> Enterobacter cloacae
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Pro	Val	Asn	Asn	Ser	Thr	Ser	His	Ser	Leu	Ala	Val	Lys	Thr	Pro	Leu
1				5					10					15	
Ser	Arg	Leu	Tyr	Leu	Ala	Leu	Phe	Ser	Ala	Pro	Leu	Leu	Leu	Phe	Leu
			20					25					30		
Pro	Ala	Asp	Ile	Ala	Arg	Ala	Ala	Asp	Ala	Phe	Phe	Asp	Gly	Asp	Ser
		35					40					45			
Arg	Ile	Thr	Glu	Thr	Leu	Gly	Tyr	Thr	Gly	Asp	Val	Tyr	Val	Gly	Arg

50	55	60
Asn Gln Arg Gly Asn Leu Leu Ile Asp Asn Gly Lys Ile Thr Ala Tyr		
65	70	75
Asn Ile Asn Ile Gly Arg Leu Phe Asp Gly Lys Ile Tyr Glu Ser Val		80
	85	90
Val Thr Val Arg Gly Pro Asp Ala Glu Leu Asn Ala Val Asn Asp Arg		95
	100	105
Tyr Val Leu Arg Gly Asp Leu Asn Leu Gly Leu Gly Thr Leu Arg Val		110
	115	120
Glu Glu Gly Ala Leu Ala Ser Ala Lys Glu Ile Val Val Gly Thr Thr		125
	130	135
Arg Gly Tyr Asp Ser His Leu Ile Ala Thr Gly Ala Gly Ser Arg Val		140
145	150	155
Thr Ser Asn Phe Leu Ser Val Gly Thr Asp Leu Gly Ala Arg Ser Thr		160
	165	170
Leu Ala Ile Glu Asp Gly Ala Ala Leu Asn Thr Ala Tyr Asp Ala Arg		175
	180	185
Ile Gly Asn Gly Thr Gly Pro Gly Glu Thr Asp Thr Leu Ser Pro Lys		190
	195	200
Ala Thr Val Thr Gly Ser Gly Ser Gln Trp Asn Val Gly Arg Thr Leu		205
210	215	220
Thr Leu Tyr Gly Asp Leu Asp Val Leu Asn Gly Gly Thr Val Asn Val		225
	230	235
Gly Gly Val Gln Val Ala Gly Val Ser Gly Ala Gly Lys Thr Ala Glu		240
	245	250
Leu Val Ile Ala Gly Glu Asp Ser Arg Phe Thr Ser Gly Ser Ser Val		255
	260	265
Ser Val Gly Asp Tyr Gly Asn Gly Val Leu Ser Val Ile Asp Gly Gly		270
	275	280
Ser Phe Ser Ala Gly Ser Asn Ala Leu Ile Val Gly Thr Ser Gly Ser		285
290	295	300
Gly Ser Asn Arg Gly Ala Leu Ile Ile Gly Ser Arg Gly Asn Met Asp		305
	310	315
Thr Gly Thr Gly Leu Thr Glu Pro Thr Leu Gly Thr Ala Gly Gly Ala		320
	325	330
Gly Thr Leu Asp Ala Lys Thr Ala Ile Ser Leu Arg Gly Gly Leu Phe		335
	340	345
Gly Ser Tyr Val Tyr Phe Asn His Thr Asp Gly Asn Tyr Ile Phe Ser		350
	355	360
Asn Thr Met Ser Gly Glu Gly Asp Val Ile Asn Thr Ser Gly Gln Thr		365
370	375	380
Thr Leu Asn Gly Asp Leu Ser Ala Leu Lys Ala Asn Val Thr Ala Arg		385
	390	395
Gly Gly Lys Val Ile Ile Ala Ser Asn Ile Asn Thr Gln Pro Glu Asp		400
	405	410
Asp Ile Phe Asp Val Gln Thr Leu Ser Ala Glu Asn Gly Gly Thr Leu		415
	420	425
Ile Leu Asn Ala Thr Ala Gly Ser Asp Val Ser Asn Gly Val Gly Tyr		430
	435	440
Ser Ser Ala Ala Ser Ile Lys Ser Gly Gly Thr Leu Gly Gly Asn Gly		445
	450	455
Thr Leu Gly Gln Thr Glu Ile Leu Ser Gly Gly His Ile Ser Pro Gly		460
465	470	475
Asp Gly Thr Ile Gly Thr Leu Thr Leu Lys Arg Tyr Leu Asn Phe Ile		480
	485	490
Gly Glu Ser Phe Tyr Asp Val Asp Ile Ala Gly Asp Gly Arg Ser Asp		495
	500	505
Gln Leu Leu Val Ser Gly Lys Thr Thr Ile Ser Asn Gln Ala Lys Val		510
	515	520
Gln Val Thr Ala Leu Asp Pro Gln Thr Ser Tyr Lys Thr Gly Gln Ser		525
530	535	540

[illegible]

1025

<210> 7859

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7859

Pro	Gly	Gly	Ser	Pro	Pro	Phe	Phe	Arg	Asp	Glu	Lys	Asn	Ala	Ser	Ala
1				5					10					15	
Arg	Val	Arg	Lys	Glu	Pro	Arg	Met	Ser	Asp	Gln	Thr	Leu	Lys	Ala	Thr
			20					25					30		
Arg	Gln	Gln	Ser	Leu	Ile	Thr	Leu	Ser	Gln	Ser	Asp	Trp	Leu	Thr	
		35					40					45			
Thr	Glu	Val	Leu	Ala	Glu	Lys	Leu	Ser	Val	Ser	Lys	Glu	Thr	Ile	Arg
		50				55					60				
Arg	Asp	Leu	Lys	Ser	Leu	Gln	Gln	Gln	Gly	Lys	Leu	Leu	Arg	Gln	His
65					70					75				80	
Gly	Arg	Ala	Arg	Leu	Ile	His	Pro	Asp	Ser	Arg	Asp	Ser	Gly	Glu	Pro
				85					90					95	
Phe	Gly	Ala	Arg	Leu	Lys	Ser	His	Tyr	Ala	Asp	Lys	Ala	Asp	Ile	Ala
			100					105					110		
Arg	His	Ala	Leu	Gly	Trp	Ile	Ser	Glu	Gly	Met	Thr	Ile	Ala	Leu	Asp
		115					120					125			
Ala	Ser	Ser	Thr	Cys	Phe	His	Leu	Ala	Arg	Gln	Leu	Pro	Asp	Ile	Asp
		130				135					140				
Leu	Thr	Val	Phe	Thr	Asn	Ser	Leu	Pro	Val	Cys	His	Glu	Met	Ala	Lys
145					150					155				160	
Arg	Glu	Arg	Ile	Thr	Leu	Ile	Cys	Ser	Gly	Gly	Thr	Leu	Glu	Arg	Lys
				165					170					175	
Tyr	Arg	Cys	Tyr	Val	Asn	Pro	Ala	Leu	Val	Thr	Gln	Leu	Lys	Gly	Leu
		180					185					190			
Glu	Ile	Asp	Leu	Phe	Ile	Phe	Ser	Cys	Glu	Gly	Val	Asp	Glu	His	Gly
		195					200					205			
Val	Leu	Trp	Asp	Pro	Ser	Glu	His	Asn	Ala	Gly	Phe	Lys	Ala	Leu	Leu
		210				215					220				
Leu	Asn	Arg	Ala	Ser	Gln	Ser	Leu	Leu	Leu	Ile	Asp	Lys	Ser	Lys	Phe
225					230					235				240	
Met	Arg	Ala	Ser	Glu	Val	Lys	Ile	Gly	Gln	Leu	Ser	Gln	Val	Thr	Gln
				245					250					255	
Ile	Ile	Gln	Ser	Asp	Lys	Arg	Gln	Ala	Ala	Arg	Asp	Gly	Leu	Thr	Arg
			260				265						270		

<210> 7860

<211> 116

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (51)

<220>

<221> UNSURE

<222> (53)

<220>

<221> UNSURE

<222> (54)

Gln Lys Gln Gly Tyr Gln Leu Ala Phe Thr Leu Glu Asp Gly Leu Ala
 290 295 300
 Asn Val Arg Asp Leu Gly Asn Ile Pro Arg Leu Leu Ile Ala Gly Asn
 305 310 315 320
 Pro Ser Ile Lys Thr Phe Ala Asn Thr Val Ser Arg Val Gln Glu Phe
 325 330 335
 Glu Pro Val Arg Val Met His Val Asp Leu Asp Tyr Val Tyr Asp Pro
 340 345 350
 Asp Pro Ala Gln Gln Thr Lys Asn Ile Asn Lys Leu Val Gln Arg Val
 355 360 365
 Tyr Asp Met Lys Ile Ser His Val Phe Leu Gln Ala Phe Ser Asp Pro
 370 375 380
 Arg Gly Asp Gly Arg Ile Ser Ala Leu Tyr Phe Pro Asn Arg Arg Leu
 385 390 395 400
 Pro Val Arg Ala Asp Leu Phe Asn Phe Val Ala Trp Gln Leu Gln Thr
 405 410 415
 Arg Ala Gly Val Lys Val Phe Ala Trp Met Pro Val Leu Ser Phe Asp
 420 425 430
 Leu Ser Pro Ala Leu Pro Arg Val Gln Arg Arg Glu Arg Gln Thr Gly
 435 440 445
 Glu Leu Thr Val Ala Ala Glu Pro Tyr Ile Arg Leu Ser Pro Trp Ser
 450 455 460
 Pro Gln Val Arg Gln Gln Val Thr Glu Ile Tyr Glu Asp Leu Ala Arg
 465 470 475 480
 Tyr Ala Ser Phe Asn Gly Ile Leu Phe His Asp Asp Ala Val Leu Thr
 485 490 495
 Asp Val Asp Asp Ala Gly Gln Asp Thr Thr Arg Gln Lys Ser Gln Arg
 500 505 510
 Leu Ile Gly Phe Thr Arg Thr Leu Ser Gln Ala Val Lys Asn Ile Arg
 515 520 525
 Gly Pro Gln Ile Lys Thr Ala Arg Asn Met Phe Ala Leu Pro Ile Leu
 530 535 540
 Glu Pro Glu Ser Glu Ala Trp Phe Ala Gln Asn Leu Asp Asp Phe Leu
 545 550 555 560
 Ala Ala Tyr Asp Trp Thr Val Pro Met Ala Met Pro Leu Met Glu Ser
 565 570 575
 Val Pro Ala Glu Glu Ser Asn Ala Trp Leu Thr Arg Leu Val Lys Ala
 580 585 590
 Val Ala Glu Arg Pro Gly Ala Leu Asn Lys Thr Ile Phe Glu Leu Gln
 595 600 605
 Ala Arg Asp Trp Ala Gln Lys Pro Gln Arg Ala Val Ala Asp Gly Arg
 610 615 620
 Leu Val Glu Trp Met Arg Val Leu Gln Leu Asn Gly Ile Lys Asn Tyr
 625 630 635 640
 Gly Tyr Tyr Pro Asp Asp Phe Leu Asn Asn Gln Pro Asp Ile Ser Arg
 645 650 655
 Ile Arg Pro Glu Phe Ser Ser Tyr Trp Tyr Pro Asp Asn Asp
 660 665 670

<210> 7862

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7862

Arg Glu His Ser Met Asn Glu Ser Thr Leu Ile Leu Thr Glu His Arg
 1 5 10 15
 Leu Ala Pro Arg Leu Phe Asp Ala Ala Leu Thr Leu Ile Ala Trp Gly
 20 25 30
 Gly Phe Leu Phe Phe Leu Tyr Ala Arg Leu Trp Met Gln Leu Thr Glu
 35 40 45

Glu Gly Asp His Arg Trp Asn Ala Ile Ile Ala Ser Phe Asn Thr Val
 50 55 60
 Leu Val Tyr Leu Leu Ile Ala Ala Phe Asn Gly Trp Leu Leu Ile Leu
 65 70 75 80
 Trp Tyr Gln Tyr Asn Arg Arg Arg Ala His Val Arg Arg Arg His Pro
 85 90 95
 Glu Met Leu Arg His Asp Glu Leu Ala Gln Ser Phe Asn Val Thr Pro
 100 105 110
 Gln Ile Met Ser Glu Met Ser Gln Tyr Asn Leu Leu Thr Val Tyr His
 115 120 125
 Asp Gln Ile Gly Arg Ile Ile Asp Leu Lys Ile Ser Glu Gln Gln Asp
 130 135 140
 Glu Lys Glu Glu
 145

<210> 7863

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7863

Asn Tyr Glu Ala Ser Ser Leu Ser Ile Pro Cys Arg Glu Gly Glu Phe
 1 5 10 15
 Ala Gln Arg Arg Val Leu Pro Ser Leu Ser Ala Asp Thr Val Glu Asn
 20 25 30
 Ile Leu Phe Ser Leu Ser Ser Arg His Arg Met Lys Thr Leu Phe Arg
 35 40 45
 Lys Phe Thr Asp Lys Lys Gly Asp Ile Met Ser Trp His Pro Tyr Thr
 50 55 60
 Gly Arg Tyr Glu Asn Met Gln Tyr Arg Tyr Cys Gly Lys Ser Gly Leu
 65 70 75 80
 Arg Leu Pro Ala Leu Ser Leu Gly Leu Trp His Ser Phe Gly His Val
 85 90 95
 Gln Pro Leu Asp Ser Gln Arg Ala Leu Leu Arg Lys Ala Phe Asp Leu
 100 105 110
 Gly Ile Thr His Phe Asp Leu Ala Asn Asn Tyr Gly Pro Pro Pro Gly
 115 120 125
 Ser Ala Glu Glu Asn Phe Gly Arg Leu Leu Arg Glu Asp Phe Ala Gly
 130 135 140
 Tyr Arg Asp Glu Leu Ile Ile Ser Thr Lys Ala Gly Tyr Asp Met Trp
 145 150 155 160
 Pro Gly Pro Tyr Gly Ser Gly Gly Ser Arg Lys Tyr Leu Leu Ala Ser
 165 170 175
 Leu Asp Gln Ser Leu Asn Arg Met Gly Val Glu Tyr Val Asp Ile Phe
 180 185 190
 Tyr Ser His Arg Val Asp Glu Asn Thr Pro Met Glu Glu Thr Ala Ala
 195 200 205
 Ala Leu Ala His Ala Val Gln Ser Gly Lys Ala Leu Tyr Val Gly Ile
 210 215 220
 Ser Ser Tyr Ser Thr Glu Arg Thr Ala Ala Met Thr Lys Leu Leu Arg
 225 230 235 240
 Glu Trp Lys Ile Pro Leu Leu Ile His Gln Pro Ser Tyr Asn Leu Leu
 245 250 255
 Asn Arg Trp Val Asp Lys Thr Gly Leu Leu Asp Ala Leu Glu Lys Asn
 260 265 270
 Gly Thr Gly Cys Ile Ala Phe Thr Pro Leu Ala Gln Gly Leu Leu Thr
 275 280 285
 Gly Lys Tyr Leu Asn Gly Ile Pro Asp Gly Ser Arg Met Gln Arg Glu
 290 295 300
 Gly Lys Lys Val Arg Gly Leu Thr Glu Lys Met Leu Thr Glu Ala Asn
 305 310 315 320

Leu Ser Ser Leu Arg Leu Leu Asn Glu Met Ala His Ala Arg Gly Gln
 325 330 335
 Thr Met Ala Gln Met Ala Leu Ser Trp Leu Leu Lys Asp Glu Arg Val
 340 345 350
 Thr Ser Val Leu Ile Gly Ala Ser Arg Pro Glu Gln Leu Glu Glu Asn
 355 360 365
 Val Gln Ala Leu Asn Asn Leu Arg Phe Ser Glu Asp Glu Leu Met Arg
 370 375 380
 Ile Asp Gln His Val Ala Asp Gly Glu Leu Asn Leu Trp Gln Ala Ser
 385 390 395 400
 Ser Asp Lys

<210> 7864

<211> 808

<212> PRT

<213> Enterobacter cloacae

<400> 7864

Leu His Tyr Val Ile Leu Leu Ser His His Asn Ile Ile Val Pro Ala
 1 5 10 15
 Phe Thr Ala Pro Val Leu Val Gln Ala Asp Glu Ser Val Tyr Glu
 20 25 30
 His Gln Ile Gln Gln Ala Arg Asn Gly Asn Tyr Ala Leu Phe Leu Asp
 35 40 45
 Tyr Leu Gln Arg Tyr Glu Gln Gln His Ala Leu Thr Pro Gly Gln Val
 50 55 60
 Ala Asp Trp Leu Gln Val Ala Ser Trp Ala Gly Arg Asp Asp Glu Val
 65 70 75 80
 Ile Arg Val Trp Gln Arg Tyr Gly Ile Tyr Met Pro Leu Pro Ala Arg
 85 90 95
 Ala Ile Ala Ala Val Ala Gln Ser Arg Arg Asn Gln Lys Ala Trp Pro
 100 105 110
 Ser Ala Leu Ser Leu Trp Lys Glu Ala Leu Ser Leu Ala Pro Asp Asn
 115 120 125
 Asp Asp Tyr Arg Ile Gly Tyr Val Lys Thr Leu Ala Asp Ala Ser Lys
 130 135 140
 Asp Arg Leu Ala Leu Ser Glu Ala Arg Gln Leu Val Lys Asp Asn Pro
 145 150 155 160
 Ser Pro Ala His Leu Glu Thr Leu Ser Tyr Val Trp Met Arg Gln Gly
 165 170 175
 Lys Asn Arg Asp Arg Leu Leu Ala Asp Met Arg Ala Leu Ser Ala Ala
 180 185 190
 Pro Gly Asn Glu Ala Leu Leu Arg Glu Thr Ile Asp Ala Leu Thr Asp
 195 200 205
 Asn Arg Val Ser Thr Pro Ala Leu Trp Leu Ser Gln Asn Ala Ala Leu
 210 215 220
 Ser Pro Ala Glu Arg Arg Arg Leu Glu Arg Asn Ala Ala Glu Arg
 225 230 235 240
 Val Arg Leu Ala Asp Val Pro Gly Arg Thr Glu Lys Glu Arg Leu Arg
 245 250 255
 Leu Ala Gln Asn Ala Leu Asp Arg Tyr His Ala Leu Leu Ser Arg Trp
 260 265 270
 Gln Asn Asp Pro Gln Ala Ala Glu Asp Val Ile Leu Ala Arg Ile Asp
 275 280 285
 Arg Leu Gly Ala Leu Tyr Ala Gln Gly Asn Tyr Arg Gln Val Ile Ser
 290 295 300
 Glu Tyr Glu Ser Leu Thr Ala Ala Gln His Pro Val Pro Asp Trp Ala
 305 310 315 320
 Ile Gly Trp Val Ile Ser Ala Tyr Leu Gln Glu Lys Asn Thr Val Ala
 325 330 335

Ala	Phe	Ser	Leu	Val	Gln	Arg	Tyr	Pro	His	Tyr	Ala	Ser	Asp	Pro	Gln
			340					345					350		
Asp	Glu	Glu	His	Ala	Leu	Phe	Tyr	Ala	Trp	Leu	Asp	Thr	Gly	Gln	Tyr
		355					360				365				
Gln	Ala	Ala	Arg	Arg	Tyr	Val	Glu	Arg	Glu	Thr	Arg	Ser	Val	Pro	Trp
	370					375					380				
Thr	Arg	Tyr	Asp	Phe	Gly	Ser	Pro	Ala	Ala	Gln	Pro	Asn	Asp	Arg	Trp
385					390					395					400
Leu	Thr	Gly	Gln	Ser	Leu	Lys	Phe	Asn	Tyr	Leu	Leu	Ala	Thr	Asn	Ala
			405						410					415	
Leu	Pro	Glu	Ala	Glu	Lys	Leu	Ser	Tyr	Arg	Leu	Ala	Ser	Thr	Ala	Pro
			420					425					430		
Gly	Asn	Gln	Gly	Leu	Gln	Ile	Asp	Tyr	Ala	Ala	Leu	Leu	Gln	Ala	Arg
		435					440					445			
Gly	Leu	Pro	Arg	Ala	Ala	Glu	Gln	Lys	Leu	Lys	Arg	Ala	Glu	Ala	Leu
	450					455					460				
Glu	Pro	Thr	Asn	Leu	Glu	Leu	Glu	Lys	Gln	Gln	Ala	Tyr	Val	Ala	Met
465					470					475					480
Asp	Leu	Gln	Glu	Trp	Arg	Gln	Met	Asp	Leu	Leu	Ala	Asp	Asn	Val	Ile
			485					490						495	
Ala	Arg	Ala	Pro	Ala	Asp	Arg	Ser	Ala	Arg	Arg	Leu	Asp	Arg	Leu	Arg
			500					505					510		
Met	Val	His	His	Met	Ser	Glu	Leu	Arg	Leu	Asn	Ala	Ala	Lys	Gly	Leu
		515					520					525			
His	Ser	Asp	Asn	Pro	Val	Ser	Gly	Ser	His	Asp	Met	Asn	Trp	Asp	Ala
	530					535					540				
Thr	Leu	Tyr	Gly	Pro	Pro	Val	Ala	Asp	Asn	Trp	Arg	Leu	Phe	Ala	Gly
545					550					555					560
Thr	Arg	Tyr	Ala	Gln	Gly	Asn	Phe	Asp	Glu	Gly	Lys	Gly	Ile	Ser	Arg
				565					570					575	
His	Leu	Leu	Gly	Gly	Val	Glu	Trp	Arg	Pro	Arg	Asp	Leu	Thr	Leu	Glu
			580					585					590		
Ala	Glu	Leu	Ser	Gly	Asn	Arg	Tyr	His	Gly	Lys	Asn	Arg	Pro	Gly	Ala
		595					600					605			
Arg	Leu	Ser	Thr	Thr	Tyr	Ser	Leu	Ser	Asp	Asn	Trp	Gln	Val	Ser	Gly
	610					615					620				
Asn	Leu	Glu	Arg	Leu	Ser	Arg	Ala	Thr	Pro	Leu	Arg	Ala	Leu	Arg	Asn
625					630					635					640
Gly	Ile	Ser	Ala	Asn	Arg	Gly	Glu	Gly	Gly	Val	Arg	Trp	Tyr	Gln	Asn
			645						650					655	
Glu	Arg	Arg	Glu	Tyr	Gln	Phe	Asn	Ala	Ala	Ile	Ser	Arg	Phe	Ser	Asp
			660					665					670		
His	Asn	Arg	Arg	Gln	Glu	Tyr	Thr	Leu	Ser	Gly	Lys	Glu	Arg	Leu	Trp
		675					680					685	</		

<210> 7865
 <211> 478
 <212> PRT
 <213> Enterobacter cloacae

<400> 7865

Thr	Ala	Ser	Lys	Ile	Thr	Val	Ile	Thr	Pro	Thr	Thr	Ser	Ser	Thr	Thr
1				5					10					15	
Asn	Leu	Ile	Phe	Arg	Val	Ser	Gly	Leu	Asn	Phe	Leu	Arg	Thr	Gly	Ile
			20					25					30		
Leu	Thr	Met	Thr	Asp	Arg	Ile	Ile	Ala	Phe	Ser	Ile	Leu	Cys	Leu	Val
		35					40					45			
Phe	Gly	Leu	Pro	Leu	Gly	Val	Ala	Ala	Leu	Phe	Thr	Gly	Glu	Leu	Ile
	50					55					60				
Leu	Asp	Phe	Val	Phe	Phe	Trp	Pro	Leu	Phe	Met	Ser	Val	Leu	Trp	Val
65				70						75				80	
Thr	Gly	Gly	Leu	Tyr	Phe	Trp	Phe	Gln	Leu	Glu	Arg	His	Trp	Ser	Trp
				85				90					95		
Asp	Asn	Ala	Thr	Pro	Ala	Pro	Ala	Leu	Ala	Gly	Glu	Pro	Leu	Ile	Ser
			100					105					110		
Ile	Leu	Ile	Pro	Cys	Phe	Asn	Glu	Arg	Asn	Ala	Arg	Glu	Thr	Ile	
		115					120					125			
Ser	Ala	Ala	Leu	Asp	Gln	Arg	Tyr	Trp	Asn	Val	Glu	Val	Ile	Ala	Ile
	130					135					140				
Asn	Asp	Gly	Ser	Ser	Asp	Asn	Thr	Ala	Glu	Val	Leu	Gln	Gln	Leu	Ala
145					150					155				160	
Arg	Glu	Gln	Pro	Arg	Leu	Arg	Val	Ile	Asn	Leu	Ala	Glu	Asn	Gln	Gly
				165				170						175	
Lys	Ala	Val	Ala	Leu	Lys	Ala	Gly	Ala	Ala	Ala	Ala	Arg	Gly	Asp	Leu
			180					185					190		
Leu	Val	Cys	Ile	Asp	Gly	Asp	Ala	Leu	Leu	Asp	Arg	Asp	Thr	Ala	Ala
		195					200					205			
Tyr	Leu	Val	Ala	Pro	Leu	Ile	Gln	Tyr	Pro	His	Val	Gly	Ala	Val	Thr
	210					215					220				
Gly	Asn	Pro	Arg	Ile	Arg	Thr	Arg	Ser	Thr	Leu	Ile	Gly	Arg	Ile	Gln
225					230					235				240	
Val	Gly	Glu	Phe	Ser	Ser	Ile	Ile	Gly	Leu	Ile	Lys	Arg	Thr	Gln	Arg
			245					250						255	
Ile	Tyr	Gly	Arg	Val	Phe	Thr	Val	Ser	Gly	Val	Ile	Ala	Ala	Phe	Arg
			260					265					270		
Arg	Gln	Ala	Leu	Ala	Asp	Val	Gly	Tyr	Trp	Ser	Pro	Asp	Met	Ile	Thr
		275					280					285			
Glu	Asp	Ile	Asp	Ile	Ser	Trp	Lys	Leu	Gln	Leu	Arg	His	Trp	Asp	Ile
	290					295					300				
Phe	Phe	Glu	Pro	Arg	Ala	Leu	Cys	Trp	Ile	Leu	Met	Pro	Glu	Thr	Leu
305					310					315				320	
Lys	Gly	Leu	Trp	Lys	Gln	Arg	Leu	Arg	Trp	Ala	Gln	Gly	Gly	Ala	Glu
				325					330					335	
Val	Phe	Leu	Val	Asn	Leu	Arg	Lys	Met	Ala	Arg	Trp	Glu	His	His	Arg
			340					345					350		
Met	Trp	Pro	Leu	Phe	Leu	Glu	Tyr	Ala	Leu	Ser	Thr	Leu	Trp	Ala	Phe
		355					360					365			
Ala	Tyr	Gly	Ala	Thr	Val	Val	Leu	Phe	Ile	Leu	Ser	His	Ile	Ile	Pro
	370					375					380				
Leu	Pro	Ala	Asn	Leu	Ala	Val	Ala	Ser	Leu	Phe	Pro	Pro	Ala	Phe	Thr
385					390					395				400	
Gly	Leu	Leu	Leu	Gly	Val	Met	Cys	Leu	Leu	Gln	Phe	Leu	Val	Ser	Leu
				405					410					415	
Tyr	Ile	Glu	Arg	Arg	Tyr	Glu	Arg	Lys	Val	Ala	Gly	Ser	Leu	Phe	Trp
			420					425					430		
Val	Ile	Trp	Phe	Pro	Met	Val	Tyr	Trp	Met	Ile	Gly	Leu	Phe	Thr	Thr

435	440	445
Leu Val Ala Phe Pro Lys	Val Met Leu Lys Arg	Lys Arg Ala Arg Ala
450	455	460
Arg Trp Ile Ser Pro Asp	Arg Gly Lys Gly Ser	Ile Gln
465	470	475

<210> 7866

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7866

Ala Val Val Phe	Gln His Leu Val Gly	Gly Met Lys Val His Gln Val
1	5	10
Gln Phe Val Gly	Gly Phe Asp Gln Leu Leu Leu Gly	Ala Phe Gly Asn
20	25	30
Gly Glu Val Leu Ala Gly	Ile Val Val Asp Asn Val Ala Val Gly Ala	
35	40	45
Asn Val Arg Leu Leu Gln Gly	Val Val Phe Ile Glu Pro Phe Ser Val	
50	55	60
Glu Leu Ala Val Val Leu Gln Pro Arg	Ala Ala Asp Phe Gln Gln Phe	
65	70	75
Thr Val Asp Leu Arg Leu Arg Asn Thr	Val Phe Arg Leu Leu Arg Leu	
85	90	95
Asp His Pro Ala Glu Asp Leu Gly	Ile Val Glu Arg Val Met Lys Arg	
100	105	110
Ile Ala Thr Val Leu His Ala Gln Thr	Gln Leu Ala Arg Pro Leu Leu	
115	120	125
Pro His Arg Gln Arg Gly Val Asn Asn Val	Leu Leu Gly Asn Ala His	
130	135	140
Ser Val Ile Gln Gln Leu Gly Asn Asp Gly	Asp Val Ala Gly Leu Met	
145	150	155
Lys Leu Thr Ala Leu Leu Pro Asp Glu	Gln Arg Thr Gly Leu Arg Arg	
165	170	175
Ala Phe		

<210> 7867

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 7867

Leu Thr Glu Val Ala Leu Ser Tyr Thr	Arg Pro Ala His Tyr Ala Arg
1	10
Ile Val Lys Arg Phe Leu His Leu Leu Leu	His Cys Leu Asn Thr Thr
20	25
Pro Lys Arg Gln Ala Asn Met Ser Asp	Asn Thr Tyr Gln Pro Pro Lys
35	40
Val Trp Glu Trp Lys Gln Asn Asn Gly Gly	Ala Phe Ala Asn Ile Asn
50	55
Arg Pro Val Ser Gly Ala Thr His Glu Lys Glu	Leu Pro Val Gly Ala
65	70
His Pro Leu Gln Leu Tyr Ser Leu Gly Thr	Pro Asn Gly Gln Lys Val
85	90
Thr Ile Met Leu Glu Glu Leu Leu Ala Leu Gly	Val Thr Gly Ala Glu
100	105
Tyr Asp Ala Trp Leu Ile Arg Ile Gly Glu Gly	Asp Gln Phe Ser Ser
115	120
Gly Phe Val Asp Val Asn Pro Asn Ser Lys Ile	Pro Ala Leu Arg Asp
130	135
	140

His Ser Thr Thr Pro Pro Thr Arg Val Phe Glu Ser Gly Asn Ile Leu
 145 150 155 160
 Leu Tyr Leu Ala Glu Lys Phe Gly His Phe Leu Pro Lys Asp Pro Ala
 165 170 175
 Gly Arg Thr Glu Thr Leu Asn Trp Leu Phe Trp Leu Gln Gly Ala Ala
 180 185 190
 Pro Phe Leu Gly Gly Gly Phe Gly His Phe Tyr Asn Tyr Ala Pro Val
 195 200 205
 Lys Ile Glu Tyr Ala Ile Asp Arg Phe Thr Met Glu Ala Lys Arg Leu
 210 215 220
 Phe Asp Val Leu Asp Lys Gln Leu Ala Arg Gly Arg Tyr Val Ala Gly
 225 230 235 240
 Glu Glu Tyr Thr Ile Ala Asp Met Ala Val Trp Pro Trp Phe Gly Cys
 245 250 255
 Val Ala Leu Gly Ser Val Tyr Asn Ala Ala Glu Phe Leu Asp Ala Gly
 260 265 270
 Lys Tyr Thr Asn Val Gln Arg Trp Ala Lys Asp Val Ala Asn Arg Pro
 275 280 285
 Ala Val Lys Arg Gly Arg Ile Val Asn Arg Thr Asn Gly Glu Leu Asn
 290 295 300
 Glu Gln Leu His Glu Arg His Ser Ala Ser Asp Phe Asp Thr Gln Thr
 305 310 315 320
 Glu Asp Lys Arg Gln Gly
 325

<210> 7868

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7868

Thr Leu Asp Asp Phe Leu Gly Phe Leu Ala Pro Arg Asp Glu Glu Val
 1 5 10 15
 Lys Gly His Lys Ser Met Phe Leu Gly Asn Asp Pro Val Thr Asp Ala
 20 25 30
 Ser Val Ile Pro Ala Leu Asp Gln Leu Thr Gly Gly Lys Lys Asp Thr
 35 40 45
 Thr Val Phe Phe Arg Ala Asp Lys Thr Val Asp Tyr Arg Lys Thr Gln
 50 55 60
 Leu Gly Glu Met Lys Val Met Asp Thr Leu His Gln Ala Gly Tyr Leu
 65 70 75 80
 Lys Ile Gly Leu Val Gly Glu Glu Lys Ala Ala Ala Lys
 85 90

<210> 7869

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7869

Gln Lys Gln Arg Val Ile Gln Arg Gln Arg Leu Ala Ala Leu Arg Gln
 1 5 10 15
 Arg Gly Glu Arg Ala Ser Gly Ile Pro Leu Val Ala Ala Leu Gly His
 20 25 30
 Gly Leu Glu Asn Ala Arg Leu Ala Ala Arg Val Phe Thr Ser Gly
 35 40 45
 Val Phe Thr Thr Arg Ile Leu Thr Ala Arg Ile Phe Thr Ser Gly Val
 50 55 60
 Phe Thr Ala Arg Ile Leu Thr Ala Arg Val Phe Ala Ser Gly Val Phe
 65 70 75 80
 Thr Thr Arg Ile Leu Thr Ala Arg Val Phe Ala Ser Gly Ile Phe Ser

				85					90					95			
Ser	Arg	Ile	Leu	Ala	Thr	Gly	Leu	Phe	Leu	Arg	Asp	Gly	Gln	Ile	Asp		
			100					105					110				
Gly	Ile	Gly	Ala	Leu	Leu	Lys	Arg	His	Val	Glu	Glu	Gly	Gly	Phe	Gly		
		115					120					125					
Asp	Arg	Ala	Gly	Glu	Leu	Thr	Val	Asn	Ser	Pro	Val	Gly	Gly	Gln	Asn		
	130					135					140						
Ala	Val	Ala	Leu	Ala	Arg	Phe	Ile	Ala	Gly	Leu	Arg	Ile	Gln	Arg	Gly		
145					150					155					160		
Asp	Leu	Tyr	Leu	Ser	Leu	Ile	Ala	Asp	Gly	Gly	Phe	Ala	Arg	Tyr	Gln		
				165					170					175			

<210> 7870

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7870

Lys	Glu	Ala	Pro	Leu	Gly	Gln	Asn	Tyr	Ala	Leu	Val	Val	Asp	Asp	His		
1				5					10					15			
Pro	Leu	Val	Ala	Ser	Gly	Ile	Ala	Asn	Phe	Leu	Ile	Thr	His	Cys	Gln		
			20					25					30				
Phe	Lys	Gln	Ala	Cys	Val	Val	Thr	Asn	Glu	Asp	Asp	Cys	Tyr	Arg	Gln		
		35					40					45					
Ile	Arg	Asp	His	Gly	Pro	Pro	Arg	Leu	Leu	Val	Ile	Asp	Phe	Trp	Leu		
	50					55					60						
Ser	Ser	Gly	Thr	Ala	Leu	Lys	Leu	Leu	Lys	Glu	Val	Lys	Gln	Leu	Tyr		
65		0			70					75					80		
Pro	Gln	Val	Arg	Leu	Leu	Val	Val	Ser	Gly	Asp	Asp	Asn	Asn	Asp	Ile		
				85					90					95			
Trp	Arg	Lys	Val	Asn	Ala	Ala	Gly	Gly	His	Gly	Phe	Val	Leu	Lys	Ser		
			100					105						110			
Glu	Pro	Pro	Glu	Met	Phe	Ser	Arg	Ala	Val	Phe	Ala	Leu	Thr	Asp	Asn		
		115						120					125				
Gln	Thr	Trp	Phe	Pro	Glu	Gly	Asn	Glu	Ile	Ser	Val	Lys	Ala	Asn	Asn		
	130					135					140						
Glu	Lys	Leu	Ser	Lys	Phe	Asn	Leu	Thr	Pro	Arg	Gln	Ile	Asp	Val	Leu		
145					150					155					160		
Asn	Met	Ile	Arg	Arg	Gly	Leu	Pro	Asn	Lys	Arg	Ile	Ala	Ala	Gln	Leu		
				165					170					175			
Ser	Ile	Ser	Glu	Pro	Thr	Val	Lys	Glu	His	Ile	Ser	Asn	Ile	Leu	Lys		
			180						185				190				
Lys	Ile	Gly	Val	Asn	Ser	Arg	Val	Glu	Ala	Ile	Thr	Leu	Leu	His	Gly		
	195						200						205				
Lys	Gln	Glu	Pro	Ser	Glu												
	210						215										

<210> 7871

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7871

Asp	Ile	Leu	Ser	Ala	Gly	Phe	Val	Cys	Arg	Gln	Asp	Phe	Met	Glu	Arg		
1				5					10					15			
Phe	Phe	Glu	Asn	Ala	Met	Tyr	Ala	Ser	Arg	Trp	Leu	Leu	Ala	Pro	Val		
			20					25					30				
Tyr	Phe	Gly	Leu	Ser	Leu	Ala	Leu	Val	Ala	Leu	Thr	Ile	Lys	Phe	Phe		
		35						40					45				

Gln	Glu	Ile	Phe	His	Val	Leu	Pro	Asn	Ile	Phe	Ser	Val	Ala	Glu	Ala
50						55					60				
Asp	Leu	Ile	Leu	Val	Leu	Ser	Leu	Val	Asp	Met	Thr	Leu	Val	Gly	
65					70				75					80	
Gly	Leu	Leu	Val	Met	Val	Met	Phe	Ser	Gly	Tyr	Glu	Asn	Phe	Val	Ser
				85					90					95	
Gln	Leu	Asp	Ile	Ala	Glu	His	Lys	Glu	Lys	Leu	Ser	Trp	Leu	Gly	Lys
			100					105					110		
Met	Asp	Ala	Ser	Ser	Leu	Lys	Asn	Lys	Val	Ala	Ala	Ser	Ile	Val	Ala
	115						120					125			
Ile	Ser	Ser	Ile	His	Leu	Leu	Arg	Val	Phe	Met	Asp	Ala	Lys	Asn	Val
	130					135					140				
Pro	Asp	Asn	Lys	Leu	Met	Trp	Tyr	Val	Ile	Ile	His	Leu	Thr	Phe	Val
145				150					155						160
Leu	Ser	Ala	Phe	Val	Met	Gly	Tyr	Leu	Asp	Lys	Ile	Ser	Lys	Lys	
				165					170					175	

<210> 7872

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 7872

Ile	Phe	Glu	Thr	Thr	Phe	Ser	Phe	Tyr	Ala	Asp	Ser	Ile	Thr	Lys	Lys
1				5					10					15	
Val	Tyr	Phe	Leu	Gln	Tyr	Leu	Pro	Ile	Thr	Arg	Gly	Val	Leu	Ala	Ser
			20					25					30		
Gly	Arg	Ile	His	Pro	His	Gly	Lys	Glu	Tyr	Ser	Met	Lys	Met	Leu	Arg
		35				40					45				
Asn	Phe	Thr	Ile	Arg	Phe	Val	Met	Leu	Thr	Ile	Leu	Gly	Ile	Phe	Cys
	50				55						60				
Val	Met	Trp	Ala	Gly	Val	Gly	Leu	Tyr	Ser	Thr	Trp	Ser	Leu	Ser	Arg
65				70					75						80
Val	Ser	Asp	Gly	Asn	Asp	Val	Asp	Arg	Leu	Leu	Val	Arg	Gln	Met	Thr
				85				90					95		
Val	Leu	Ser	Gln	Gly	Asn	Asp	Gln	Tyr	Phe	Arg	Phe	Val	Thr	Arg	Leu
			100				105						110		
Ser	Arg	Ala	Met	Glu	Val	Lys	Ala	Ala	Gly	Gly	Thr	Pro	Asp	Leu	Ala
		115				120					125				
Pro	Ala	Gln	Gln	Ala	Leu	Asp	Asn	Met	Ser	Lys	Lys	Leu	Ala	Glu	Met
	130					135				140					
Lys	Ala	Ile	Ser	Pro	Gly	Pro	Met	Asp	Glu	Lys	Val	Ser	Ala	Gln	Val
145				150					155						160
Ile	Ser	Thr	Trp	Gln	Ala	Leu	Leu	Asp	Gln	Gly	Val	Thr	Pro	Gln	Met
				165				170						175	
Ala	Gln	Ala	Lys	Gln	Ala	Thr	Leu	Glu	Gly	Tyr	Arg	Gln	His	Ala	Asn
			180					185					190		
Asn	Val	Thr	Pro	Pro	Leu	Ser	Arg	Ala	Phe	Gly	Ser	Ala	Ala	Glu	Asn
		195				200					205				
Phe	Asn	Asn	Thr	Ala	Ala	Lys	Ala	Leu	Asp	Ser	Thr	Arg	Val	Val	Val
	210					215				220					
Asp	Gly	Leu	Thr	Ser	Met	Thr	Arg	Thr	Val	Ile	Ile	Thr	Ala	Thr	Ile
225				230					235						240
Val	Gly	Leu	Leu	Ile	Leu	Leu	Phe	Thr	Asp	Arg	Tyr	Leu	Val	Ala	Ile
				245				250						255	
Leu	Val	Lys	Pro	Leu	Asp	Arg	Ile	Arg	Gln	Gln	Phe	Arg	Gln	Ile	Ala
			260				265						270		
Gln	Gly	Asp	Leu	Ser	Gln	Pro	Ile	Glu	Ser	Leu	Gly	Arg	Asn	Cys	Val
		275				280					285				
Gly	Gln	Leu	Val	Pro	Leu	Leu	Ser	Ala	Met	Gln	Asp	Ser	Leu	Arg	Glu
	290					295					300				

Ala Val Ser Thr Ile Arg Ser Gly Ser Glu Asn Ile Trp Arg Gly Ala
 305 310 315 320
 Thr Glu Ile Ser Ser Gly Asn Asn Asp Leu Ser Ser Arg Thr Glu Glu
 325 330 335
 Gln Ala Ala Ala Leu Glu Glu Thr Ala Ala Ser Met Glu Gln Leu Thr
 340 345 350
 Ala Thr Val Lys Leu Asn Ala Glu Ser Ala Arg Gln Ala Ser Gln Leu
 355 360 365
 Ala Asp Val Ala Ser Ser Thr Ala Ser Arg Gly Gly Ser Leu Val Glu
 370 375 380
 Asp Val Val Thr Thr Met Ser Gly Ile Ser Asp Ser Ser Lys Lys Ile
 385 390 395 400
 Ala Glu Ile Thr Thr Val Ile Asn Ser Ile Ala Phe Gln Thr Asn Ile
 405 410 415
 Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly
 420 425 430
 Arg Gly Phe Ala Val Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg
 435 440 445
 Ser Ala Asn Ala Ala Lys Glu Ile Glu Gly Leu Ile Ala Asp Ser Val
 450 455 460
 Ala Arg Val Glu Gln Gly Ala Gln Leu Val Asn Asp Thr Gly Thr Thr
 465 470 475 480
 Met Glu Ala Ile Leu Arg Asp Val Thr Glu Val Thr Val Ile Met Lys
 485 490 495
 Gln Ile Ala Thr Ala Ser Glu Glu Gln Ser Lys Gly Ile Ser Gln Val
 500 505 510
 Gly Val Ala Ile Thr Gln Met Asp Gly Val Thr Gln Gln Asn Ala Ser
 515 520 525
 Leu Val Glu Gln Val Ser Ala Ala Ala Ala Leu Glu Arg Gln Thr
 530 535 540
 Glu Glu Leu Gln Arg Ser Val Gln Lys Phe Arg Leu Thr Ala
 545 550 555

<210> 7873

<211> 624

<212> PRT

<213> Enterobacter cloacae

<400> 7873

Val Gly His Met Arg Lys Gly Thr Leu Ser Ser Asp Ala Pro Phe Gly
 1 5 10 15
 Thr Leu Leu Gly Tyr Ala Pro Gly Gly Val Ala Ile Tyr Ser Ser Asn
 20 25 30
 Tyr Gly Ser Leu Asp Pro Arg Arg Tyr Pro Glu Asp Ala Glu Phe Arg
 35 40 45
 Ser Tyr Ile Gly Asn Glu Tyr Met Gly His Lys Trp Gln Cys Val Glu
 50 55 60
 Phe Ala Arg Arg Phe Leu Phe Leu Asn His Gly Phe Val Phe Thr Asp
 65 70 75 80
 Val Gly Met Ala Trp Glu Ile Phe Ser Leu Arg Phe Leu Arg Gln Val
 85 90 95
 Val Asn Asp Asn Ile Leu Pro Leu Gln Ala Phe Ala Asn Gly Ser Lys
 100 105 110
 Arg Ala Pro Gln Ala Gly Ala Leu Leu Ile Trp Gln Lys Gly Gly Glu
 115 120 125
 Phe His Glu Thr Gly His Val Ala Val Ile Thr Gln Leu Leu Asp Asp
 130 135 140
 Arg Val Arg Ile Ala Glu Gln Asn Val Ile His Ser Pro Leu Pro Met
 145 150 155 160
 Gly Gln Gln Trp Thr Arg Glu Leu Arg Leu Ser Val Glu Asp Gly Cys
 165 170 175

Tyr Thr Leu His Asp Thr Phe Asn Asp Thr Glu Ile Leu Gly Trp Met
 180 185 190
 Ile Gln Thr Glu Glu Thr Glu His Ser Ile Pro Gln Pro Glu Ile Asp
 195 200 205
 Gly Glu Leu Leu Lys Ile Ser Gly Ala Arg Leu Lys Asn Asn Arg Gln
 210 215 220
 Phe Asp Gly Lys Trp Leu Asn Glu Asn Asp Ala Leu Gln Gln Ala Tyr
 225 230 235 240
 Val Arg Ala Asn Gly His Val Ile Asn Asn Asp Pro Cys Gln Tyr Phe
 245 250 255
 Thr Ile Thr Glu Ser Ala Glu Gln Glu Leu Ile Lys Ala Thr Asn Glu
 260 265 270
 Leu His Leu Met Tyr Leu His Ala Thr Asp Lys Val Leu Lys Asp Asp
 275 280 285
 Ser Leu Leu Ala Leu Phe Asp Ile Pro Lys Ile Leu Trp Pro Arg Leu
 290 295 300
 Arg Leu Ser Trp Gln Trp Arg Arg His His Met Ile Thr Gly Arg Met
 305 310 315 320
 Asp Phe Cys Met Asp Glu Arg Gly Ile Lys Val Tyr Glu Tyr Asn Ala
 325 330 335
 Asp Ser Ala Ser Cys His Thr Glu Gly Leu Ile Leu Glu Glu Trp
 340 345 350
 Val Lys Asn Gly Tyr Arg Gly Thr Gly His Asn Pro Ala Glu Gly Leu
 355 360 365
 Leu Glu Glu Leu Thr Gly Ala Trp Lys His Ser His Ala Arg Pro Phe
 370 375 380
 Val His Ile Met Gln Asp Asn Asp Ile Glu Glu Asp Tyr His Val Leu
 385 390 395 400
 Phe Ile Gln Arg Ser Leu Ile Gln Ala Gly Phe Glu Thr Lys Ile Leu
 405 410 415
 His Gly Leu Gly Ala Leu Ser Trp Asp Ala Ala Gly Gln Leu Ile Asp
 420 425 430
 Asp Glu Gly Arg His Val Asn Cys Val Trp Lys Thr Trp Ala Trp Glu
 435 440 445
 Thr Ala Ile Glu Gln Ile Arg Glu Val Ser Glu Thr Glu Tyr Ala Ala
 450 455 460
 Val Pro Ile Arg Thr Gly His Pro Gln Gly Glu Val Arg Leu Ile Asp
 465 470 475 480
 Val Leu Leu Arg Pro Glu Val Leu Val Phe Glu Pro Leu Trp Thr Val
 485 490 495
 Ile Pro Gly Asn Lys Ala Ile Leu Pro Val Leu Trp Gln Leu Phe Pro
 500 505 510
 Asn His Arg Tyr Leu Leu Asp Thr Asp Phe Glu Val Asn Asp Leu Leu
 515 520 525
 Lys Arg Thr Gly Tyr Ala Val Lys Pro Ile Ala Gly Arg Cys Gly Ser
 530 535 540
 Asn Ile Asp Leu Ile Gly Ala Gln Asp Glu Leu Leu Asp Gln Ser Ser
 545 550 555 560
 Gly Lys Phe Val Asp Arg Lys Asn Ile Tyr Gln Gln Leu Trp Cys Leu
 565 570 575
 Pro Lys Val Asp Gly Arg Tyr Ile Gln Val Cys Thr Phe Thr Val Gly
 580 585 590
 Gly Asn Tyr Gly Gly Thr Cys Leu Arg Gly Asp Asn Ser Leu Val Val
 595 600 605
 Lys Lys Glu Ser Asp Ile Glu Pro Leu Ile Val Val Lys Asp Asn
 610 615 620

<210> 7874

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7874

Thr Val Arg Asn Ala Val Gln Val Phe Ser Gly Glu Gln Ala Leu Cys
 1 5 10 15
 Gln Arg Gly Lys Gly Asp Thr Ala Arg Ser Val Phe Leu Gln Arg Val
 20 25 30
 Gln Gln Ala Gly Leu Val Asp Pro Ala Val Lys Gln Val Val Arg Arg
 35 40 45
 Leu Val Asp Gln Lys Arg Asp Leu Pro Leu Ala Gln Gln Phe Gly His
 50 55 60
 Arg Arg Arg Ala Phe Arg Gly Val Arg Arg Asn Ala Asp Ile Gln Arg
 65 70 75 80
 Phe Ser Ala Leu His Arg Val Cys Gln Arg Ser Gly Gly Leu Phe His
 85 90 95
 Arg Arg Val Phe Val Tyr Ala Val Arg Ile Glu Asn Ile His Ile Leu
 100 105 110
 His Thr His Ala Val Gln Ala Leu Val Glu Ala Gly Glu Gln Val Leu
 115 120 125
 Thr
 130

<210> 7875

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7875

Met Leu Tyr Thr His Ser Ser His Gln Asn Arg Gly Asn Ala Met Ser
 1 5 10 15
 Lys Ile Lys Ser Tyr Ala Ala Pro Gln Ala Gly Ala Glu Leu Glu Leu
 20 25 30
 Tyr Glu Tyr Asp Ala Gly Glu Leu Lys Ala Glu Asp Val Glu Val Gln
 35 40 45
 Val Asp Tyr Cys Gly Ile Cys His Ser Asp Leu Ser Met Ile Asp Asn
 50 55 60
 Glu Trp Gly Phe Ser Ser Tyr Pro Leu Val Ala Gly His Glu Val Ile
 65 70 75 80
 Gly Arg Val Val Ala Leu Gly Ser Ala Ala Gln Asp Lys Gly Leu Lys
 85 90 95
 Val Gly Gln Arg Val Gly Ile Gly Trp Thr Ala Arg Ser Cys Gly His
 100 105 110
 Cys Asp Ala Cys Ile Ser Gly Asn Gln Ile Asn Cys Leu Glu Gly Ala
 115 120 125
 Thr Pro Thr Ile Leu Asn Lys Gly Gly Phe Ala Asp Lys Leu Arg Ala
 130 135 140
 Asp Trp Gln Trp Val Ile Pro Leu Pro Asp Ser Ile Asp Ile Glu Ser
 145 150 155 160
 Ala Gly Pro Leu Leu Cys Gly Gly Ile Thr Val Phe Lys Pro Leu Leu
 165 170 175
 Met His His Ile Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly
 180 185 190
 Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu
 195 200 205
 Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala
 210 215 220
 Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Thr
 225 230 235 240
 Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Asp
 245 250 255
 Leu Asp Trp Gln Pro Tyr Phe Glu Ala Leu Ala Tyr Gly Gly Asn Phe
 260 265 270

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<210> 7876
<211> 960
<212> PRT
<213> Enterobacter cloacae
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<400>	7876														
Pro 1	Glu	Tyr	Gly	Asn 5	Leu	Glu	Ile	Met	Glu 10	Lys	Thr	Tyr	Asn 15	Pro	Arg
Asp	Ile	Glu	Gln 20	Pro	Leu	Tyr	Glu	His 25	Trp	Glu	Gln	Gln 30	Gly	Tyr	Phe
Lys	Pro	Asn 35	Gly	Asp	Glu	Ser	Lys 40	Glu	Ser	Phe	Cys	Ile 45	Met	Ile	Pro
Pro	Pro	Asn 50	Val	Thr	Gly	Ser 55	Leu	His	Met	Gly	His 60	Ala	Phe	Gln	Gln
Thr 65	Ile	Met	Asp	Thr	Met	Ile 70	Arg	Tyr	Gln	Arg	Met	Gln	Gly	Lys	Asn 80
Thr	Leu	Trp	Gln	Ala 85	Gly	Thr	Asp	His	Ala 90	Gly	Ile	Ala	Thr	Gln	Met
Val	Val	Glu	Arg	Lys 100	Ile	Ala	Ala	Glu	Glu 105	Gly	Lys	Thr	Arg	His	Asp
Tyr	Gly	Arg	Asp	Ala 115	Phe	Ile	Asp	Lys 120	Ile	Trp	Gln	Trp	Lys 125	Ala	Glu
Ser	Gly	Gly	Thr	Ile	Thr	Arg	Gln	Met	Arg	Arg	Leu	Gly	Asn 140	Ser	Val
Asp 145	Trp	Glu	Arg	Glu	Arg	Phe	Thr	Met	Asp	Glu	Gly	Leu	Ser	Asn	Ala 160
Val	Lys	Glu	Val	Phe 165	Val	Arg	Leu	Tyr	Lys	Glu	Asp	Leu	Ile	Tyr	Arg
Gly	Lys	Arg	Leu	Val 180	Asn	Trp	Asp	Pro	Lys	Leu	Arg	Thr	Ala	Ile	Ser
Asp	Leu	Glu	Val	Glu	Asn	Arg	Glu	Ser	Lys	Gly	Ser	Met	Trp	His	Ile
Arg	Tyr	Pro	Leu	Ala	Asp	Gly	Ala	Lys	Thr	Ala	Asp	Gly	Lys	Asp	Tyr
Leu 225	Val	Val	Ala	Thr	Thr	Arg	Pro	Glu	Thr	Leu	Leu	Gly	Asp	Thr	Gly
Val	Ala	Val	Asn	Pro	Glu	Asp	Pro	Arg	Tyr	Lys	Asp	Leu	Ile	Gly	Lys
Phe	Val	Val	Leu	Pro	Leu	Val	Asn	Arg	Arg	Ile	Pro	Ile	Val	Gly	Asp
Glu	His	Ala	Asp	Met	Glu	Lys	Gly	Thr	Gly	Cys	Val	Lys	Ile	Thr	Pro
Ala	His	Asp	Phe	Asn	Asp	Tyr	Glu	Val	Gly	Arg	Arg	His	Gln	Leu	Pro
Met 305	Ile	Asn	Ile	Leu	Thr	Phe	Asp	Gly	Asp	Ile	Arg	Glu	Ser	Ala	Glu
Val	Tyr	Asp	Thr	Lys	Gly	Asn	Glu	Ser	Asp	Val	Tyr	Ser	Ser	Asp	Ile

Pro	Ala	Glu	Phe	Gln	Lys	Leu	Glu	Arg	Phe	Ala	Ala	Arg	Lys	Ala	Ile
			340					345					350		
Val	Ala	Ala	Val	Asp	Ala	Leu	Gly	Leu	Leu	Glu	Glu	Ile	Lys	Pro	His
		355					360					365			
Asp	Leu	Thr	Val	Pro	Tyr	Gly	Asp	Arg	Gly	Gly	Val	Val	Ile	Glu	Pro
	370					375					380				
Met	Leu	Thr	Asp	Gln	Trp	Tyr	Val	Arg	Ala	Asp	Val	Leu	Ala	Lys	Pro
385					390					395					400
Ala	Val	Glu	Ala	Val	Glu	Asn	Gly	Ser	Ile	Gln	Phe	Val	Pro	Lys	Gln
				405					410						415
Tyr	Glu	Asn	Met	Tyr	Phe	Ser	Trp	Met	Arg	Asp	Ile	Gln	Asp	Trp	Cys
		420						425					430		
Ile	Ser	Arg	Gln	Leu	Trp	Trp	Gly	His	Arg	Ile	Pro	Ala	Trp	Tyr	Asp
		435					440					445			
Asn	Glu	Gly	Asn	Val	Tyr	Val	Gly	Arg	Thr	Glu	Glu	Glu	Val	Arg	Gln
	450					455					460				
Glu	Asn	Asn	Leu	Gly	Ala	Asp	Val	Ala	Leu	Arg	Gln	Asp	Glu	Asp	Val
465					470					475					480
Leu	Asp	Thr	Trp	Phe	Ser	Ser	Ala	Leu	Trp	Thr	Phe	Ser	Thr	Leu	Gly
				485					490						495
Trp	Pro	Glu	Asn	Thr	Asp	Ala	Leu	Arg	Gln	Phe	His	Pro	Thr	Ser	Val
			500					505					510		
Met	Val	Ser	Gly	Phe	Asp	Ile	Ile	Phe	Phe	Trp	Ile	Ala	Arg	Met	Ile
		515					520					525			
Met	Met	Thr	Met	His	Phe	Ile	Lys	Asp	Glu	Asp	Gly	Lys	Pro	Gln	Val
	530					535					540				
Pro	Phe	His	Thr	Val	Tyr	Met	Thr	Gly	Leu	Ile	Arg	Asp	Asp	Glu	Gly
545					550					555					560
Gln	Lys	Met	Ser	Lys	Ser	Lys	Gly	Asn	Val	Ile	Asp	Pro	Leu	Asp	Met
				565					570						575
Val	Asp	Gly	Ile	Ser	Leu	Glu	Glu	Leu	Glu	Lys	Arg	Thr	Gly	Asn	
			580					585					590		
Met	Met	Gln	Pro	Gln	Leu	Ala	Glu	Lys	Ile	Arg	Lys	Arg	Thr	Glu	Lys
		595					600					605			
Gln	Phe	Pro	Asn	Gly	Ile	Glu	Ser	His	Gly	Thr	Asp	Ala	Leu	Arg	Phe
	610					615					620				
Thr	Leu	Ala	Ala	Leu	Ala	Ser	Thr	Gly	Arg	Asp	Ile	Asn	Trp	Asp	Met
625					630					635					640
Lys	Arg	Leu	Glu	Gly	Tyr	Arg	Asn	Phe	Cys	Asn	Lys	Leu	Trp	Asn	Ala
				645					650						655
Ser	Arg	Phe	Val	Leu	Met	Asn	Thr	Glu	Asp	Gln	Asp	Cys	Gly	Phe	Asn
		660						665					670		
Gly	Gly	Glu	Met	Thr	Leu	Ser	Leu	Ala	Asp	Arg	Trp	Ile	Leu	Ala	Glu
		675					680					685			
Phe	Asn	Gln	Thr	Val	Lys	Ala	Phe	Arg	Asp	Ala	Leu	Asp	Ser	Tyr	Arg
	690					695					700				
Phe	Asp	Ile	Ala	Ala	Gly	Ile	Leu	Tyr	Glu	Phe	Thr	Trp	Asn	Gln	Phe
705					710					715					720
Cys	Asp	Trp	Tyr	Leu	Glu	Leu	Ala	Lys	Pro	Val	Met	Asn	Gly	Gly	Ser
				725					730						735
Glu	Ala	Glu	Leu	Arg	Gly	Thr	Arg	Asn	Thr	Leu	Ile	Thr	Val	Leu	Glu
			740					745					750		
Gly	Leu	Leu	Arg	Leu	Ala	His	Pro	Ile	Ile	Pro	Phe	Ile	Thr	Glu	Thr
		755					760					765			
Ile	Trp	Gln	Arg	Val	Lys	Val	Ile	Ala	Gly	Ile	Asn	Pro	Asp	Thr	Ile
	770					775						780			
Met	Leu	Gln	Pro	Phe	Pro	Ala	Phe	Asp	Ala	Ala	Lys	Val	Asp	Glu	Ala
785					790					795					800
Ala	Ser	Ala	Asp	Thr	Glu	Trp	Leu	Lys	Gln	Ala	Ile	Val	Ala	Ile	Arg
				805					810					815	
Asn	Ile	Arg	Ala	Glu	Met	Asn	Ile	Ala	Pro	Gly	Lys	Pro	Leu	Glu	Leu

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<210> 7877
<211> 199
<212> PRT
<213> Enterobacter cloacae
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<210> 7878
<211> 201
<212> PRT
<213> Enterobacter cloacae
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<400> 7878
Gly Lys Thr Gln Arg Arg Asp Arg Asp Val Arg Trp Arg Cys Gly Arg
1 5 10 15
Ser Ser Cys Ser Ile Gly Arg Val Leu Pro Gly Arg Ser Asn Asp Lys
20 25 30

Arg Arg Gly Gly Val Pro Leu Thr Arg Ala Leu His Leu Asn Pro Arg
 35 40 45
 Gln Glu Thr Pro Tyr Met Lys Asn Ala Thr Phe Tyr Leu Leu Asp Asn
 50 55 60
 Asp Thr His Gln Asp Gly Leu Ser Ala Val Glu Gln Leu Val Cys Glu
 65 70 75 80
 Ile Ala Ala Glu Arg Trp Arg Ala Gly Lys Arg Val Leu Ile Ala Cys
 85 90 95
 Glu Asp Glu Gln Gln Ala Ile Arg Leu Asp Glu Ala Leu Trp Ala Arg
 100 105 110
 Pro Pro Glu Ser Phe Val Pro His Asn Leu Ser Gly Glu Gly Pro Arg
 115 120 125
 Gly Gly Ala Pro Val Glu Ile Ala Trp Pro Gln Lys Arg Asn Ser Ser
 130 135 140
 Ala Arg Asp Ile Leu Ile Ser Leu Arg Thr Asp Phe Ala Asp Phe Ala
 145 150 155 160
 Thr Ala Phe Thr Glu Val Val Asp Phe Val Pro Tyr Glu Glu Ser Leu
 165 170 175
 Lys Gln Leu Ala Arg Glu Arg Tyr Lys Ala Tyr Arg Leu Ala Gly Phe
 180 185 190
 Asn Leu Asn Thr Ala Thr Trp Lys
 195 200

<210> 7879

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 7879

Gly Ile Tyr Ala Asp Ile Leu Pro Ser Gly Cys Leu Tyr Ser Thr Gln
 1 5 10 15
 Asp Tyr Glu Arg Thr Cys Ile Met Ser Thr Pro Leu Leu Ile Ala Arg
 20 25 30
 Thr Leu Glu Lys Glu Leu Phe Leu Leu Pro Ala Met Ala Asn Arg His
 35 40 45
 Gly Leu Ile Thr Gly Ala Thr Gly Thr Gly Lys Thr Val Thr Leu Gln
 50 55 60
 Lys Leu Ala Glu Ser Leu Ser Glu Thr Gly Val Pro Val Phe Met Ala
 65 70 75 80
 Asp Val Lys Gly Asp Leu Thr Gly Val Ala Gln Glu Gly Ala Ala Ser
 85 90 95
 Glu Lys Leu Leu Glu Arg Leu Lys Asn Ile Gly Ile Thr Asp Trp Thr
 100 105 110
 Pro His Gly Asn Pro Val Val Val Trp Asp Ile Phe Gly Glu Lys Gly
 115 120 125
 His Pro Val Arg Ala Thr Val Ser Asp Leu Gly Pro Leu Leu Leu Ala
 130 135 140
 Arg Leu Leu Asn Leu Asn Asp Val Gln Ser Gly Val Leu Asn Ile Ile
 145 150 155 160
 Phe Arg Ile Ala Asp Asp Gln Gly Leu Leu Leu Leu Asp Phe Lys Asp
 165 170 175
 Leu Arg Ala Ile Thr Gln Tyr Ile Gly Asp Asn Ala Lys Ser Phe Gln
 180 185 190
 Asn Gln Tyr Gly Asn Ile Ser Ser Ala Ser Val Gly Ala Ile Gln Arg
 195 200 205
 Gly Leu Leu Thr Leu Glu Gln Gly Ala Glu His Phe Phe Gly Glu
 210 215 220
 Pro Met Leu Asp Ile Lys Asp Trp Met Arg Thr Asp Ser Ser Gly Lys
 225 230 235 240
 Gly Ile Ile Asn Ile Leu Ser Ala Glu Lys Leu Tyr Gln Met Pro Lys
 245 250 255

Leu Tyr Ala Ala Ser Leu Leu Trp Met Leu Ser Glu Leu Tyr Glu Gln
 260 265 270
 Leu Pro Glu Ala Gly Asp Leu Glu Lys Pro Lys Leu Val Phe Phe Phe
 275 280 285
 Asp Glu Ala His Leu Leu Phe Asn Asp Ala Pro Gln Val Leu Leu Asp
 290 295 300
 Lys Ile Glu Gln Val Ile Arg Leu Ile Arg Ser Lys Gly Val Gly Val
 305 310 315 320
 Trp Phe Val Ser Gln Asn Pro Ser Asp Ile Pro Asp Asn Val Leu Gly
 325 330 335
 Gln Leu Gly Asn Arg Val Gln His Ala Leu Arg Ala Phe Thr Pro Lys
 340 345 350
 Asp Gln Lys Ala Val Lys Ala Ala Gln Thr Met Arg Val Asn Pro
 355 360 365
 Ala Phe Asp Thr Glu Thr Ala Ile Gln Ala Leu Gly Thr Gly Glu Ala
 370 375 380
 Leu Ile Ser Phe Leu Asp Ala Lys Gly Ser Pro Thr Val Val Glu Arg
 385 390 395 400
 Ala Met Val Ile Ala Pro Cys Ser Arg Met Gly Pro Val Thr Asp Asp
 405 410 415
 Glu Arg Asn Gly Leu Ile Asn His Ser Pro Val Tyr Gly Lys Tyr Glu
 420 425 430
 Asp Glu Val Asp Arg Glu Ser Ala Phe Glu Met Leu Gln Lys Gly Val
 435 440 445
 Gln Ala Thr Ala Glu Ser Gln Asp Ala Pro Ala Ala Lys Gly Gln Ser
 450 455 460
 Val Ala Val Asp Asp Gly Ile Leu Gly Gly Leu Lys Asp Ile Leu Phe
 465 470 475 480
 Gly Ser Thr Gly Pro Arg Gly Gly Lys Arg Asp Gly Val Val Gln Thr
 485 490 495
 Met Ala Lys Ser Ala Thr Arg Gln Ile Thr Asn Gln Ile Val Arg Gly
 500 505 510
 Met Leu Gly Ser Leu Leu Gly Gly Arg Arg Arg
 515 520

<210> 7880

<211> 1501

<212> PRT

<213> Enterobacter cloacae

<400> 7880

Ser Ser Val Gly Ser Pro Thr Ser Leu Gly Arg Phe Thr Asp Met Leu
 1 5 10 15
 Tyr Asp Lys Ser Leu Glu Lys Asp Asn Cys Gly Phe Gly Leu Ile Ala
 20 25 30
 His Ile Glu Gly Glu Pro Ser His Lys Val Val Arg Thr Ala Ile His
 35 40 45
 Ala Leu Ala Arg Met Gln His Arg Gly Ala Ile Leu Ala Asp Gly Lys
 50 55 60
 Thr Gly Asp Gly Cys Gly Leu Leu Leu Gln Lys Pro Asp Arg Phe Phe
 65 70 75 80
 Arg Ile Val Ala Glu Glu Arg Gly Trp Arg Leu Ala Lys Asn Tyr Ala
 85 90 95
 Val Gly Met Leu Phe Leu Asn Gln Asp Pro Glu Lys Ala Ala Ala Ser
 100 105 110
 Arg Arg Ile Val Glu Glu Glu Leu Gln Arg Glu Thr Leu Ser Ile Val
 115 120 125
 Gly Trp Arg Asp Val Pro Thr Asn Glu Gly Val Leu Gly Glu Ile Ala
 130 135 140
 Leu Ser Ser Leu Pro Arg Ile Glu Gln Ile Phe Val Asn Ala Pro Ala
 145 150 155 160

Gly	Trp	Arg	Pro	Arg	Asp	Met	Glu	Arg	Arg	Leu	Phe	Ile	Ala	Arg	Arg		
				165					170					175			
Arg	Ile	Glu	Lys	Arg	Leu	Gln	Asp	Asp	Lys	Glu	Phe	Tyr	Val	Cys	Ser		
			180					185					190				
Leu	Ser	Asn	Leu	Val	Asn	Ile	Tyr	Lys	Gly	Leu	Cys	Met	Pro	Ala	Asp		
		195					200					205					
Leu	Pro	Arg	Phe	Tyr	Leu	Asp	Leu	Ala	Asp	Leu	Arg	Leu	Glu	Ser	Ala		
	210					215					220						
Ile	Cys	Leu	Phe	His	Gln	Arg	Phe	Ser	Thr	Asn	Thr	Val	Pro	Arg	Trp		
225					230					235					240		
Pro	Leu	Ala	Gln	Pro	Phe	Arg	Tyr	Leu	Ala	His	Asn	Gly	Glu	Ile	Asn		
				245					250					255			
Thr	Ile	Thr	Gly	Asn	Arg	Gln	Trp	Ala	Arg	Ala	Arg	Thr	Tyr	Lys	Phe		
			260					265					270				
Gln	Thr	Pro	Leu	Ile	Pro	Asp	Leu	His	Asp	Ala	Ala	Pro	Phe	Val	Asn		
		275					280					285					
Glu	Thr	Gly	Ser	Asp	Ser	Ser	Ser	Met	Asp	Asn	Met	Leu	Glu	Leu	Leu		
	290					295				300							
Leu	Ala	Gly	Gly	Met	Asp	Ile	Val	Arg	Ala	Met	Arg	Leu	Leu	Val	Pro		
305					310					315					320		
Pro	Ala	Trp	Gln	Asn	Pro	Asp	Met	Asp	Pro	Glu	Leu	Arg	Ala	Phe			
				325				330						335			
Phe	Asp	Phe	Asn	Ser	Met	His	Met	Glu	Pro	Trp	Asp	Gly	Pro	Ala	Gly		
			340					345					350				
Ile	Val	Met	Ser	Asp	Gly	Arg	Phe	Ala	Ala	Cys	Asn	Leu	Asp	Arg	Asn		
		355					360					365					
Gly	Leu	Arg	Pro	Ala	Arg	Tyr	Val	Ile	Thr	Lys	Asp	Lys	Leu	Ile	Thr		
	370					375					380						
Cys	Ala	Ser	Glu	Val	Gly	Ile	Trp	Asp	Tyr	Gln	Pro	Asp	Glu	Val	Val		
385					390					395					400		
Glu	Lys	Gly	Arg	Val	Gly	Pro	Gly	Glu	Leu	Met	Val	Ile	Asp	Thr	Arg		
				405				410					415				
Gly	Gly	Arg	Ile	Leu	His	Ser	Ala	Glu	Thr	Asp	Asn	Asp	Leu	Lys	Ser		
			420					425					430				
Arg	His	Pro	Tyr	Lys	Glu	Trp	Met	Glu	Lys	Asn	Val	Arg	Arg	Leu	Val		
		435					440					445					
Pro	Phe	Glu	Asp	Leu	Ser	Asp	Glu	Glu	Val	Gly	Ser	Arg	Glu	Leu	Asp		
	450					455					460						
Asp	Asp	Thr	Leu	Ala	Ser	Phe	Gln	Lys	Gln	Phe	Asn	Tyr	Ser	Ala	Glu		
465					470					475					480		
Glu	Leu	Asp	Ser	Val	Ile	Arg	Val	Leu	Gly	Glu	Asn	Gly	Gln	Glu	Ala		
				485				490					495				
Val	Gly	Ser	Met	Gly	Asp	Asp	Thr	Pro	Phe	Ala	Val	Leu	Ser	Ser	Gln		
			500					505					510				
Pro	Arg	Ile	Ile	Tyr	Asp	Tyr	Phe	Arg	Gln	Gln	Phe	Ala	Gln	Val	Thr		
		515					520					525					
Asn	Pro	Pro	Ile	Asp	Pro	Leu	Arg	Glu	Ala	His	Val	Met	Ser	Leu	Ala		
	530					535					540						
Thr	Ser	Ile	Gly	Arg	Glu	Met	Asn	Val	Phe	Cys	Glu	Ala	Glu	Gly	Gln		
545					550					555					560		
Ala	His	Arg	Leu	Thr	Phe	Lys	Ser	Pro	Ile	Leu	Leu	Tyr	Ser	Asp	Phe		
				565				570						575			
Lys	Gln	Leu	Thr	Thr	Met	Thr	Glu	Glu	His	Tyr	Arg	Ala	Asp	Thr	Leu		
			580					585					590				
Asp	Ile	Thr	Phe	Asp	Val	Thr	Glu	Thr	Ser	Leu	Glu	Glu	Thr	Val	Asn		
		595					600					605					
Ala	Leu	Cys	Asp	Lys	Ala	Glu	Gln	Met	Val	Arg	Asn	Gly	Thr	Val	Leu		
	610					615					620						
Leu	Val	Leu	Ser	Asp	Arg	Asn	Ile	Ala	Lys	Asn	Arg	Leu	Pro	Val	Pro		
625					630					635					640		
Ala	Pro	Met	Ala	Val	Gly	Ala	Ile	Gln	Thr	Arg	Leu	Val	Asp	Lys	Ser		

				645				650				655				
Leu	Arg	Cys	Asp	Ala	Asn	Ile	Ile	Val	Glu	Thr	Ala	Ser	Ala	Arg	Asp	
660								665				670				
Pro	His	His	Phe	Ala	Val	Leu	Leu	Gly	Phe	Gly	Ala	Thr	Ala	Ile	Tyr	
675								680				685				
Pro	Tyr	Leu	Ala	Tyr	Glu	Thr	Leu	Ala	Arg	Leu	Val	Asp	Thr	Arg	Ala	
690				695				700								
Ile	Asp	Lys	Asp	Tyr	Arg	Ala	Val	Met	Leu	Asn	Tyr	Arg	Asn	Gly	Ile	
705					710				715				720			
Asn	Lys	Gly	Leu	Tyr	Lys	Ile	Met	Ser	Lys	Met	Gly	Ile	Ser	Thr	Ile	
				725				730				735				
Ala	Ser	Tyr	Arg	Cys	Ser	Lys	Leu	Phe	Glu	Ala	Val	Gly	Leu	His	Asn	
740								745				750				
Glu	Val	Ala	Asn	Leu	Cys	Phe	Gln	Gly	Val	Val	Ser	Arg	Ile	Gly	Gly	
755				760				765								
Ala	Gly	Phe	Ala	Asp	Phe	Gln	Gln	Asp	Leu	Val	Asn	Leu	Ser	Lys	Arg	
770				775				780								
Ala	Trp	Leu	Ala	Arg	Lys	Pro	Leu	Glu	Gln	Gly	Gly	Leu	Leu	Lys	Tyr	
785					790				795				800			
Val	His	Gly	Gly	Glu	Tyr	His	Ala	Tyr	Asn	Pro	Asp	Val	Val	Arg	Thr	
805								810				815				
Leu	Gln	Gln	Ala	Val	Gln	Ser	Gly	Glu	Tyr	Ser	Asp	Tyr	Gln	Gln	Tyr	
820				825				830								
Ala	Glu	Leu	Val	Asn	Asn	Arg	Pro	Ala	Ala	Thr	Leu	Arg	Asp	Leu	Ile	
835				840				845								
Ala	Leu	Asn	Pro	Gly	Glu	Glu	Ala	Val	Ser	Ile	Asp	Glu	Val	Glu	Pro	
850				855				860								
Ala	Ser	Glu	Leu	Phe	Lys	Arg	Phe	Asp	Thr	Ala	Ala	Met	Ser	Ile	Gly	
865					870				875				880			
Ala	Leu	Ser	Pro	Glu	Ala	His	Glu	Ala	Leu	Ala	Glu	Ala	Met	Asn	Ser	
885				890				895								
Ile	Gly	Gly	Asn	Ser	Asn	Ser	Gly	Glu	Gly	Gly	Glu	Asp	Pro	Ala	Arg	
900				905				910								
Tyr	Gly	Thr	Asn	Lys	Val	Ser	Arg	Ile	Lys	Gln	Val	Ala	Ser	Gly	Arg	
915				920				925								
Phe	Gly	Val	Thr	Pro	Ala	Tyr	Leu	Val	Asn	Ala	Asp	Val	Ile	Gln	Ile	
930				935				940								
Lys	Val	Ala	Gln	Gly	Ala	Lys	Pro	Gly	Glu	Gly	Gly	Gln	Leu	Pro	Gly	
945					950				955				960			
Asp	Lys	Val	Thr	Pro	Tyr	Ile	Ala	Lys	Leu	Arg	Tyr	Ser	Val	Pro	Gly	
965				970				975								
Val	Thr	Leu	Ile	Ser	Pro	Pro	Pro	His	His	Asp	Ile	Tyr	Ser	Ile	Glu	
980				985				990								
Asp	Leu	Ala	Gln	Leu	Ile	Phe	Asp	Leu	Lys	Gln	Val	Asn	Pro	Lys	Ala	
995				1000				1005								
Met	Ile	Ser	Val	Lys	Leu	Val	Ser	Glu	Pro	Gly	Val	Gly	Thr	Ile	Ala	
1010				1015				1020								
Thr	Gly	Val	Ala	Lys	Ala	Tyr	Ala	Asp	Leu	Ile	Thr	Ile	Ala	Gly	Tyr	
1025					1030				1035				1040			
Asp	Gly	Gly	Thr	Gly	Ala	Ser	Pro	Leu	Ser	Ser	Val	Lys	Tyr	Ala	Gly	
1045				1050				1055								
Cys	Pro	Trp	Glu	Leu	Gly	Leu	Val	Glu	Thr	Gln	Gln	Ala	Leu	Val	Ala	
1060				1065				1070								
Asn	Gly	Leu	Arg	His	Lys	Ile	Arg	Leu	Gln	Val	Asp	Gly	Gly	Leu	Lys	
1075																

Lys Leu Arg Lys Asn His Tyr His Gly Leu Pro Phe Lys Val Thr Asn
 1140 1145 1150
 Tyr Phe Asp Phe Ile Ala Arg Glu Thr Arg Glu Leu Met Ala Gln Leu
 1155 1160 1165
 Gly Val Lys Arg Leu Val Asp Leu Ile Gly Arg Thr Asn Leu Leu Lys
 1170 1175 1180
 Glu Leu Glu Gly Phe Thr Ala Lys Gln Gln Lys Leu Glu Leu Ser Lys
 1185 1190 1195 1200
 Leu Leu Glu Thr Ala Gln Pro His Pro Gly Lys Ala Val Tyr Cys Thr
 1205 1210 1215
 Glu Asn Asn Pro Pro Phe Asp Asn Gly Val Leu Asn Ala Gln Leu Leu
 1220 1225 1230
 Gln Gln Ala Lys Pro Tyr Val Asp Glu Lys Gln Ser Lys Thr Phe Trp
 1235 1240 1245
 Phe Asp Ile Arg Asn Thr Asp Arg Ser Val Gly Ala Ser Leu Ser Gly
 1250 1255 1260
 Tyr Ile Ala Gln Thr His Gly Asp Gln Gly Leu Ala Ser Asp Pro Ile
 1265 1270 1275 1280
 Thr Ala His Phe Ser Gly Thr Ala Gly Gln Ser Phe Gly Val Trp Asn
 1285 1290 1295
 Ala Gly Gly Val Glu Leu Tyr Leu Thr Gly Asp Ala Asn Asp Tyr Val
 1300 1305 1310
 Gly Lys Gly Met Ala Gly Gly Leu Leu Ala Val Arg Pro Pro Val Gly
 1315 1320 1325
 Ser Ala Phe Arg Ser His Glu Ala Ser Ile Ile Gly Asn Thr Cys Leu
 1330 1335 1340
 Tyr Gly Ala Thr Gly Gly Arg Leu Phe Ala Ala Gly Arg Ala Gly Glu
 1345 1350 1355 1360
 Arg Phe Ala Val Arg Asn Ser Gly Ala Ile Thr Val Val Glu Gly Ile
 1365 1370 1375
 Gly Asp Asn Gly Cys Glu Tyr Met Thr Gly Gly Ile Val Cys Val Leu
 1380 1385 1390
 Gly Lys Thr Gly Val Asn Phe Gly Ala Gly Met Thr Gly Gly Phe Ala
 1395 1400 1405
 Tyr Val Leu Asp Glu Asp Gly Glu Phe Arg Lys Arg Val Asn Pro Glu
 1410 1415 1420
 Leu Val Glu Val Leu Asp Val Asp Thr Leu Ala Ile His Glu Glu His
 1425 1430 1435 1440
 Leu Arg Gly Leu Ile Thr Glu His Val Gln His Thr Gly Ser Ser Arg
 1445 1450 1455
 Gly Glu Glu Ile Leu Ala Asn Trp Pro Ala Phe Ser Ala Lys Phe Ala
 1460 1465 1470
 Leu Val Lys Pro Lys Ser Ser Asp Val Lys Ala Leu Leu Gly His Arg
 1475 1480 1485
 Ser Arg Ser Ala Ala Glu Leu Arg Val Gln Ala Gln
 1490 1495 1500

<210> 7881

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 7881

Gly Ile Gln Met Ser Gln Asn Val Tyr Gln Phe Ile Asp Leu Gln Arg
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 Val Asp Pro Pro Lys Lys Pro Leu Lys Ile Arg Lys Ile Glu Phe Val
 20 25 30
 Glu Ile Tyr Glu Pro Phe Ser Glu Gly Gln Ala Lys Ala Gln Ala Asp
 35 40 45
 Arg Cys Leu Ser Cys Gly Asn Pro Tyr Cys Glu Trp Lys Cys Pro Val
 50 55 60

His Asn Tyr Ile Pro Asn Trp Leu Lys Leu Ala Asn Glu Gly Arg Ile
 65 70 75 80
 Phe Glu Ala Ala Glu Leu Ser His Gln Thr Asn Thr Leu Pro Glu Val
 85 90 95
 Cys Gly Arg Val Cys Pro Gln Asp Arg Leu Cys Glu Gly Ser Cys Thr
 100 105 110
 Leu Asn Asp Glu Phe Gly Ala Val Thr Ile Gly Asn Ile Glu Arg Tyr
 115 120 125
 Ile Asn Asp Lys Ala Phe Glu Met Gly Trp Arg Pro Asp Met Thr Gly
 130 135 140
 Val Arg Gln Thr Asp Lys Arg Val Ala Ile Ile Gly Ala Gly Pro Ala
 145 150 155 160
 Gly Leu Ala Cys Ala Asp Val Leu Thr Arg Asn Gly Val Lys Ala Val
 165 170 175
 Val Phe Asp Arg His Pro Glu Ile Gly Gly Leu Leu Thr Phe Gly Ile
 180 185 190
 Pro Ala Phe Lys Leu Glu Lys Glu Val Met Thr Arg Arg Arg Glu Ile
 195 200 205
 Phe Thr Gly Met Gly Ile Glu Phe Lys Leu Asn Thr Glu Val Gly Arg
 210 215 220
 Asp Val Gln Leu Asp Asp Leu Leu Lys Asp Tyr Asp Ala Val Phe Leu
 225 230 235 240
 Gly Val Gly Thr Tyr Gln Ser Met Arg Gly Gly Leu Glu Asn Glu Asp
 245 250 255
 Ala Pro Gly Val Tyr Asp Ala Leu Pro Phe Leu Ile Ala Asn Thr Lys
 260 265 270
 Gln Leu Met Gly Tyr Gly Glu Thr Ala Asp Glu Pro Phe Val Ser Met
 275 280 285
 Glu Gly Lys Arg Val Val Val Leu Gly Gly Gly Asp Thr Ala Met Asp
 290 295 300
 Cys Val Arg Thr Ser Ile Arg Gln Asn Ala Ala His Val Ile Cys Ala
 305 310 315 320
 Tyr Arg Arg Asp Glu Glu Asn Met Pro Gly Ser Lys Arg Glu Val Lys
 325 330 335
 Asn Ala Arg Glu Glu Gly Val Glu Phe Gln Phe Asn Ile Gln Pro Leu
 340 345 350
 Gly Ile Glu Val Asn Ala Asn Gly Lys Val Ser Gly Val Lys Met Ala
 355 360 365
 Arg Thr Glu Met Gly Ala Pro Asp Ala Lys Gly Arg Arg Arg Ala Glu
 370 375 380
 Ile Val Ala Gly Ser Glu His Val Ile Pro Ala Asp Ala Val Val Met
 385 390 395 400
 Ala Phe Gly Phe Arg Pro His Ser Met Glu Trp Leu Ala Lys His Ser
 405 410 415
 Val Glu Leu Asp Ser Gln Gly Arg Ile Ile Ala Pro Glu Gly Ser Asp
 420 425 430
 Asn Ala Phe Gln Thr Ser Asn Pro Lys Ile Phe Ala Gly Gly Asp Ile
 435 440 445
 Val Arg Gly Ser Asp Leu Val Val Thr Ala Ile Ala Glu Gly Arg Lys
 450 455 460
 Ala Ala Glu Gly Ile Met Asn Phe Leu Glu Val
 465 470 475

<210> 7882

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 7882

Thr Lys Phe Trp Glu Thr Met Ser Arg Phe Phe Phe Asn Asp Arg Lys
 1 5 10 15

Gln Leu Val Asn Asp Ala Ile Glu Gly Ile Leu Leu Ser Ala Pro His
 20 25 30
 Gly Asn Leu Val Lys Leu Asp Ile Asp Pro Ala Ile Arg Val Val Ala
 35 40 45
 Arg Gly Asp Trp Asp Lys Ser Arg Val Ala Val Ile Ser Gly Gly Gly
 50 55 60
 Ser Gly His Glu Pro Ala His Ala Gly Phe Val Gly Lys Gly Met Leu
 65 70 75 80
 Thr Ala Ala Val Cys Gly Asp Leu Phe Ala Ser Pro Ser Val Asp Ala
 85 90 95
 Val Leu Asn Ala Ile Val Ala Val Thr Gly Asp Arg Gly Cys Leu Leu
 100 105 110
 Ile Val Lys Asn Tyr Thr Gly Asp Arg Leu Asn Phe Gly Leu Ala Ala
 115 120 125
 Glu Lys Ala Lys Arg Tyr Gly Leu Lys Val Glu Met Val Ile Val Ala
 130 135 140
 Asp Asp Ile Ala Leu Pro Asp Asn Lys Gln Pro Arg Gly Ile Ala Gly
 145 150 155 160
 Thr Ala Leu Val His Lys Ile Ala Gly Tyr Ala Ala Glu Gln Gly Lys
 165 170 175
 Ser Leu Asn Asp Val Arg Asp Ile Ala Gln Gln Ala Cys Asp Asn Leu
 180 185 190
 Trp Ser Leu Gly Val Ala Met Gln Thr Cys Asn Leu Pro Gly Ser Asp
 195 200 205
 Asp Glu Gly Gly Arg Ile Lys Gln Gly His Val Glu Leu Gly Leu Gly
 210 215 220
 Ile His Gly Glu Pro Gly Ala Ser Val Val Asp Thr Gln Asn Ser Lys
 225 230 235 240
 Ala Ile Ile Asp Thr Leu Val Thr Pro Leu Arg Ala Gln Ala Gly Glu
 245 250 255
 Gly Arg Phe Ala Val Leu Ile Asn Asn Leu Gly Gly Val Ser Ala Leu
 260 265 270
 Glu Met Ala Leu Leu Thr Lys Glu Leu Ala His Ser Ala Leu Lys Glu
 275 280 285
 Asn Ile Ala Tyr Leu Ile Gly Pro Ala Pro Leu Val Ser Ala Leu Asp
 290 295 300
 Met Lys Gly Phe Ser Leu Thr Leu Leu Lys Leu Asn Asp Phe Phe Glu
 305 310 315 320
 Lys Ala Ile His Ala Glu Val Glu Thr Leu Gly Trp Gln Lys Pro Val
 325 330 335
 Ala Phe Ala Pro Leu Arg Thr Val Pro His Ser Ala Leu His Asp Arg
 340 345 350
 Val Glu Tyr Ala Pro Ser Asp Asn Thr Glu Val Ser Glu Ala Val Ala
 355 360 365
 Ser Val Thr Lys Thr Leu Ile Gln Leu Glu Asn Arg Leu Asn Ala Leu
 370 375 380
 Asp Ala Lys Val Gly Asp Gly Asp Thr Gly Ser Thr Phe Ala Gln Gly
 385 390 395 400
 Ala Arg Asp Ile Thr Gln Arg Leu Glu Glu Asn Asn Leu Pro Leu Asn
 405 410 415
 Asp Val Pro Thr Leu Leu Leu Leu Val Gly Glu Arg Leu Ala Thr Val
 420 425 430
 Met Gly Gly Ser Ser Gly Val Leu Met Ser Ile Phe Phe Thr Ala Ala
 435 440 445
 Gly Gln Lys Leu His Asp Gly Gln Pro Leu Pro Glu Ala Leu Leu Ser
 450 455 460
 Gly Leu Ala Gln Met Lys Gln Tyr Gly Gly Ala Asp Leu Gly Asp Arg
 465 470 475 480
 Thr Leu Ile Asp Ala Leu Gln Pro Ala Leu Glu Ala Leu Gln Lys Gly
 485 490 495
 Asn Ile Gln Ala Ala Ala Gln Ala Ala Gln Gln Gly Ala Glu Ala Thr

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<210> 7883
<211> 344
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Pro	Ser	Arg	Ala 5	Ile	Asp	Pro	Gly	His 10	Arg	Arg	Gln	Arg	Leu 15	Lys
Met	Ala	Gly	Leu 20	Ser	Pro	Phe	Phe	Gly 25	Thr	Val	Tyr	Gln 30	Ile	Met	Gln
Leu	Gln	Lys 35	Leu	Val	Asn	Met	Phe 40	Gly	Gly	Asp	Leu 45	Gln	Arg	Tyr	
Gly	Gln 50	Lys	Val	His	Lys 55	Leu	Thr	Leu	His	Gly 60	Phe	Ser	Cys	Pro	
Asn 65	Arg	Asp	Gly	Thr 70	Ile	Gly	Arg	Gly	Gly 75	Cys	Thr	Phe	Cys	Asn 80	Val
Ala	Ser	Phe	Ala 85	Asp	Glu	Ala	Gln	Gln	His 90	Lys	Ser	Ile	Ala 95	Glu	Gln
Leu	Ala	His 100	Gln	Ala	Ser	Leu	Val	Asn 105	Arg	Ala	Lys	Gln 110	Tyr	Leu	Ala
Tyr	Phe	Gln 115	Ala	Tyr	Thr	Ser	Thr 120	Trp	Ala	Glu	Val	Gln 125	Val	Leu	Arg
Ser	Met 130	Tyr	Gln	Gln	Ala 135	Val	Ala	Gln	Ala	Asn 140	Ile	Val	Gly	Leu	Cys
Val 145	Gly	Thr	Arg	Pro 150	Asp	Cys	Val	Pro	Asp 155	Ala	Val	Leu	Asp	Leu 160	Leu
Ser	Glu	Tyr	Lys 165	Glu	Lys	Gly	Tyr	Glu	Ile 170	Trp	Leu	Glu	Leu 175	Gly	Leu
Gln	Thr	Ala 180	His	Asp	Lys	Thr	Leu	His 185	Arg	Ile	Asn	Arg 190	Gly	His	Asp
Phe	Ala 195	Cys	Tyr	Gln	Arg	Thr	Thr 200	Arg	Leu	Ala	Arg	Gln 205	Arg	Gly	Leu
Lys	Val 210	Cys	Ser	His	Leu 215	Ile	Val	Gly	Leu	Pro	Gly 220	Glu	Gly	Arg	Gln
His 225	Gly	Leu	Glu	Thr 230	Leu	Glu	Lys	Val	Val	Glu 235	Thr	Gly	Val	Asp	Gly 240
Ile	Lys	Leu	His 245	Pro	Leu	His	Ile	Val	Lys 250	Gly	Ser	Ile	Met	Ala 255	Lys
Ala	Trp	Glu	Ala 260	Gly	Arg	Leu	Cys	Gly 265	Ile	Glu	Leu	Asp 270	Asp	Tyr	Thr
Val	Thr	Ala 275	Gly	Glu	Met	Ile	Arg	His 280	Thr	Pro	Pro	Glu 285	Ile	Val	Tyr
His	Arg 290	Ile	Ser	Ala	Ser	Ala 295	Arg	Arg	Pro	Thr	Leu 300	Leu	Ala	Pro	Leu
Trp 305	Cys	Glu	Asn	Arg 310	Trp	Thr	Gly	Met	Leu	Glu 315	Ile	Asn	Arg	Tyr	Leu 320
Gln	Glu	Asn	Gly	Val 325	Gln	Gly	Ser	Ala	Leu 330	Gly	Arg	Pro	Trp	Val 335	Pro
Pro	Leu	Pro	Ala 340	Thr	Ala	Ala									

<210> 7884
<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 7884

Gln	Thr	Ser	Gln	His	Ala	Ala	Tyr	Tyr	Leu	Val	Gly	Asn	Leu	Thr	Arg
1				5					10					15	
Arg	Ala	Phe	Cys	His	Gly	Leu	Asn	His	Ala	Ile	Ala	Phe	Ala	Ala	Ala
			20					25					30		
Trp	Pro	Gly	Ala	Ala	Glu	Gln	Asn	Ile	Phe	Gln	Pro	Ala	Glu	Asn	Ala
		35					40					45			
Val	Val	His	Gly	Asn	Arg	Leu	Pro	Phe	Cys	Gly	Arg	Arg	Ile	Leu	Arg
	50					55					60				
Phe	Gly	Ser	Arg	Leu	His	Pro	Phe	Leu	Gln	His	Leu	Glu	Arg	Arg	Phe
65					70					75					80
Ala	Ile	His	Leu	Val	Phe	Ile	Leu	Ser	Val	His	Arg	Gly	Val	Val	Asn
				85					90					95	
Gln	Ala	Val	Ala	Phe	Ile	Val	Arg	Tyr	Arg	Thr	His	Ala	Arg	Ala	Gly
			100					105					110		
Arg	Asn	His	His	Arg	Ala	Leu	Asp	Asn	Cys	Arg	Ala	Ala	Phe	Cys	Ile
		115					120					125			
Glu	Glu	Arg	Asn	Gln	Arg	Phe	Thr	Gly	Ala	Gln	Arg	Leu	Asn	Gly	Gly
	130					135					140				
Phe	Gly	Ile	Lys	Gly	Arg	Ile	Asp	Thr	His	Gly	Leu	Arg	Arg	Gly	Phe
145					150					155					160
His	Arg	Phe	Leu	Ile	Phe	Arg	Arg	Lys	Gly	Ala	Gln	Gly	Val	Leu	His
				165					170					175	
Ala	Val	Thr	Gln	Leu	Pro	Gln	Tyr	Val	Val	Arg	Asn	Ile	Arg	Arg	Val
			180					185					190		
Leu	Arg	His	Lys	Pro	Asp	Pro	Asp	Ala	Phe	Gly	Ala	Asp	Gln	Ala	Asp
		195					200					205			
Asn	Leu	Phe	Asn	Phe	Ile	Gln	Gln	His	Leu	Arg	Arg	Val	Val	Lys	Gln
	210					215					220				
Gln	Val	Arg	Phe	Val	Lys	Glu	Glu	His	Gln	Phe	Gly	Phe	Phe	Gln	Ile
225					230					235					240
Ala	Cys	Phe	Arg	Gln	Leu	Phe	Val	Gln	Phe	Arg	Glu	His	Pro	Gln	Gln
				245					250					255	
Ala	Gly	Gly	Val	Lys	Leu	Arg	His	Leu	Val	Glu	Leu	Leu	Cys	Ala	Gln
			260					265					270		
Asn	Val	Asp	Asp	Ala	Phe	Ala	Ala	Ala	Val	Gly	Thr	His	Pro	Val	Phe
		275					280					285			
Asp	Ile	Gln	His	Trp	Leu	Ala	Glu	Glu	Val	Phe	Gly	Ala	Leu	Leu	Leu
	290					295					300				
Gln	Arg	Gln	Glu	Pro	Ala	Leu	Asn	Gly	Ala	His					
305					310					315					

<210> 7885

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 7885

Gln	Met	Lys	Lys	Val	Val	Leu	Ala	Ser	Met	Leu	Val	Met	Phe	Val	Ser
1				5					10					15	
Ser	Ala	Phe	Ala	Ala	Asp	Thr	Ala	Val	Leu	Lys	Val	Thr	Gly	Val	Leu
			20					25					30		
Thr	Asn	Ser	Ser	Cys	Ile	Pro	Glu	Ile	Ser	Gly	Gly	Gly	Val	Val	Asp
		35					40					45			
Tyr	Gly	Thr	Ile	His	Leu	Ser	Ala	Leu	Asn	Thr	Thr	Ala	Ile	Asn	Gln
	50					55					60				
Leu	Gly	Gln	Lys	Asp	Phe	Ser	Leu	Ser	Ile	Thr	Cys	Pro	Ala	Leu	Thr
65					70					75					80

Lys Ala Gly Phe Ser Val Ser Asp Asp Arg Thr Gly Thr Ala Pro Asn
 85 90 95
 Ile Met Val Lys Asp Gly Ala Gly Asn Gly Asn Asp Ile Ile Gln Pro
 100 105 110
 Leu Asn Met Phe Gly Leu Asn Lys Thr Ala Gly Asn Val Asn Ile Gly
 115 120 125
 Asn Tyr Thr Ile Phe Val Lys Asn Asp Thr Ile Thr Ala Asp Gly Ala
 130 135 140
 Thr Val Gly Ala Ile Tyr Ser Ala Asp Asn Gly Thr Ser Trp Ser Asp
 145 150 155 160
 Asn Gly Thr Leu Met Val Asn Asp Gly Ser Gln Ile Val Ser Val Ala
 165 170 175
 Thr Val Gly Ser Thr Ala Pro Val Ala Phe Lys Asn Leu Val Ile Pro
 180 185 190
 Met Ala Val Ser Ala Ala Ile Gln Asp Thr Asn Thr Leu Ala Ile Thr
 195 200 205
 Asp Asp Thr Asn Met Asp Gly Gln Ala Thr Phe Thr Ile Lys Tyr Leu
 210 215 220

225

<210> 7886

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7886

Leu Pro Gly Thr Gln Thr Ser Arg Gly Tyr Glu Ile Met Ser Thr Ala
 1 5 10 15
 Lys Leu Val Lys Thr Lys Ala Ser Asn Leu Leu Tyr Thr Arg Asn Asp
 20 25 30
 Val Ser Asp Ser Asp Lys Lys Ala Thr Ile Glu Leu Leu Asn Arg Gln
 35 40 45
 Val Val Gln Phe Ile Asp Leu Ser Leu Ile Thr Lys Gln Ala His Trp
 50 55 60
 Asn Met Arg Gly Ala Asn Phe Ile Ala Val His Glu Met Leu Asp Gly
 65 70 75 80
 Phe Arg Thr Ala Leu Val Thr His Leu Asp Thr Met Ala Glu Arg Ala
 85 90 95
 Val Gln Leu Gly Gly Val Ala Leu Gly Thr Thr Gln Val Ile Asn Ser
 100 105 110
 Lys Thr Pro Leu Lys Ser Tyr Pro Leu Asp Ile His Thr Val Gln Asp
 115 120 125
 His Leu Lys Glu Leu Ala Asp Arg Tyr Ala Ile Val Ala Asn Asp Val
 130 135 140
 Arg Lys Ala Ile Gly Glu Ala Lys Asp Glu Asp Thr Ala Asp Ile Phe
 145 150 155 160
 Thr Ala Ala Ser Arg Asp Leu Asp Gln Phe Leu Trp Phe Ile Glu Ser
 165 170 175
 Asn Ile Glu
 180

<210> 7887

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7887

Lys Lys Asp Glu Asn Pro Val Ile Glu Phe Lys Asn Val Ser Lys His
 1 5 10 15
 Phe Gly Pro Thr Gln Val Leu His Asn Ile Asp Leu Asn Ile Arg Gln

			20					25				30					
Gly	Glu	Val	Val	Val	Ile	Ile	Gly	Pro	Ser	Gly	Ser	Gly	Lys	Ser	Thr		
		35					40					45					
Leu	Leu	Arg	Cys	Ile	Asn	Lys	Leu	Glu	Glu	Ile	Thr	Ser	Gly	Asp	Leu		
	50					55					60						
Ile	Val	Asp	Gly	Leu	Lys	Val	Asn	Asp	Pro	Lys	Val	Asp	Glu	Arg	Leu		
65					70					75					80		
Ile	Arg	Gln	Glu	Ala	Gly	Met	Val	Phe	Gln	Gln	Phe	Tyr	Leu	Phe	Pro		
				85				90						95			
His	Leu	Thr	Ala	Leu	Glu	Asn	Val	Met	Phe	Gly	Pro	Leu	Arg	Val	Arg		
			100					105					110				
Gly	Ala	Ser	Lys	Ala	Ala	Ala	Glu	Ala	Leu	Ala	Lys	Asp	Leu	Leu	Ala		
	115						120					125					
Lys	Val	Gly	Leu	Ala	Glu	Arg	Ala	His	His	Tyr	Pro	Ser	Glu	Leu	Ser		
	130					135					140						
Gly	Gly	Gln	Gln	Gln	Arg	Val	Ala	Ile	Ala	Arg	Ala	Leu	Ala	Val	Lys		
145					150					155					160		
Pro	Lys	Met	Met	Leu	Phe	Asp	Glu	Pro	Thr	Ser	Ala	Leu	Asp	Pro	Glu		
				165				170						175			
Leu	Arg	His	Glu	Val	Leu	Lys	Val	Met	Gln	Asp	Leu	Ala	Glu	Glu	Gly		
			180					185					190				
Met	Thr	Met	Val	Ile	Val	Thr	His	Glu	Ile	Gly	Phe	Ala	Glu	Lys	Val		
	195						200					205					
Ala	Ser	Arg	Leu	Ile	Phe	Ile	Asp	Lys	Gly	Arg	Ile	Ala	Glu	Asp	Gly		
	210					215					220						
Asn	Pro	Gln	Thr	Leu	Ile	Ala	Asn	Pro	Pro	Ser	Gln	Arg	Leu	Gln	Glu		
225					230					235					240		
Phe	Leu	Gln	His	Val	Ser												
				245													

<210> 7888

<211> 776

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (539)

<400> 7888

Pro	His	Thr	Glu	Pro	Gly	Met	Pro	Gly	Phe	Phe	Met	Pro	Asp	Cys	Ser		
1				5				10						15			
Gln	Lys	Leu	Pro	Ser	Ala	Pro	Arg	Ala	Leu	Tyr	Leu	Ser	Phe	Cys	Thr		
		20						25					30				
Ile	Phe	Leu	Ser	Glu	Asp	Ala	Val	Pro	Trp	Ile	Leu	Leu	Leu	Leu	Phe		
	35					40					45						
Ser	Leu	Phe	Ser	Ala	Pro	Ser	Leu	Ala	Val	Thr	Leu	Pro	Gly	Val	Thr		
	50					55				60							
Thr	Gly	Ala	Thr	Ala	Ser	Gln	Gln	Asn	Ala	Pro	Pro	Glu	Pro	Asp	Ala		
65				70				75						80			
Glu	Lys	Lys	Lys	Ala	Ala	Tyr	Gly	Ala	Leu	Ala	Asp	Val	Leu	Glu	Asn		
				85				90						95			
Asp	Thr	Ser	Arg	Gln	Glu	Leu	Ile	Asp	Gln	Leu	Arg	Lys	Val	Ala	Ala		
			100					105					110				
Thr	Pro	Pro	Gln	Asp	Pro	Val	Pro	Ala	Val	Ala	Pro	Pro	Glu	Ala	Glu		
	115						120					125					
Glu	Glu	Lys	Thr	Val	Leu	Glu	Asn	Val	Thr	Asp	Ile	Ser	Arg	Arg	Tyr		
	130					135					140						
Gly	Glu	Ala	Leu	Ser	Ser	Arg	Phe	Ala	Gln	Leu	Tyr	Arg	Asn	Leu	Val		
145				150				155						160			
Gly	Thr	Ser	His	Lys	Pro	Phe	Asn	Pro	His	Thr	Phe	Ser	Ala	Ala	Ala		

				165					170					175	
Thr	Gln	Phe	Ala	Ile	Leu	Ala	Gly	Ala	Val	Phe	Ile	Phe	Tyr	Trp	Leu
			180					185					190		
Leu	Arg	Leu	Ser	Val	Trp	Pro	Leu	Tyr	Arg	Lys	Met	Gly	Gln	Trp	Gly
		195					200					205			
Arg	Lys	Lys	Asn	Gln	His	Lys	Ser	Ser	Trp	Leu	His	Leu	Pro	Ala	Met
	210					215					220				
Ile	Thr	Gly	Ala	Phe	Val	Ile	Asp	Leu	Leu	Leu	Leu	Ala	Leu	Thr	Leu
225					230					235					240
Phe	Val	Gly	Gln	Leu	Leu	Ala	Asp	Arg	Leu	Asn	Thr	Gly	Asn	Lys	Thr
				245					250					255	
Ile	Ala	Phe	Gln	Gln	Gly	Leu	Phe	Leu	Asn	Ala	Phe	Ala	Leu	Ile	Glu
			260					265					270		
Phe	Phe	Lys	Ala	Leu	Leu	Arg	Leu	Ile	Phe	Cys	Pro	Arg	Val	Pro	Asp
		275					280					285			
Leu	Arg	Pro	Phe	Ala	Ile	Ser	Asp	Gln	Ser	Ala	Lys	Tyr	Trp	Ala	Val
	290					295					300				
Arg	Leu	Ser	Val	Leu	Ser	Gly	Leu	Ile	Gly	Tyr	Gly	Leu	Leu	Val	Ala
305					310					315					320
Val	Pro	Ile	Ile	Ser	Asn	Gln	Val	Asn	Val	Gln	Phe	Gly	Ala	Leu	Ala
				325					330					335	
Asn	Val	Leu	Ile	Met	Leu	Cys	Ile	Thr	Val	Trp	Ala	Leu	Tyr	Leu	Ile
			340					345					350		
Phe	His	Asn	Lys	Lys	Ala	Ile	Thr	Asp	Ser	Leu	Leu	His	Leu	Ala	Asp
		355					360					365			
Arg	Ser	Leu	Ser	Phe	Phe	Ser	Leu	Phe	Ile	Arg	Ala	Phe	Ala	Leu	Val
	370					375					380				
Trp	His	Trp	Leu	Ala	Ser	Ala	Tyr	Phe	Ile	Val	Leu	Cys	Phe	Phe	Ser
385					390					395					400
Leu	Phe	Asp	Pro	Gly	Asn	Ser	Leu	Lys	Phe	Met	Met	Gly	Ala	Thr	Phe
				405					410					415	
Lys	Ser	Leu	Ala	Ile	Ile	Gly	Ile	Ala	Ala	Phe	Val	Ser	Gly	Leu	Leu
			420					425					430		
Ser	Arg	Trp	Leu	Ser	Lys	Thr	Ile	Thr	Leu	Ser	Pro	Gln	Val	Gln	Arg
		435					440					445			
Asn	Tyr	Pro	Glu	Leu	Gln	Lys	Arg	Val	Asn	Gly	Trp	Met	Thr	Val	Ser
	450					455					460				
Leu	Lys	Val	Ala	Arg	Ile	Leu	Thr	Val	Cys	Val	Ala	Ile	Met	Leu	Leu
465					470					475					480
Leu	Asn	Ala	Trp	Gly	Leu	Phe	Asp	Phe	Trp	Asn	Trp	Leu	His	Asn	Gly
				485					490					495	
Ala	Gly	Glu	Lys	Thr	Val	Asp	Ile	Leu	Ile	Arg	Ile	Ala	Leu	Ile	Leu
			500					505					510		
Phe	Phe	Ser	Ala	Val	Gly	Trp	Thr	Leu	Leu	Ala	Ser	Leu	Ile</		

Asn Phe Val Arg Gly Ile Gly Ser Val Val Ala Asn Tyr Asp Val Asp
 660 665 670
 Arg His Glu Asp Ala Asp Lys Ala Lys Gln Ala Leu Arg Asp Ala Val
 675 680 685
 Asn Glu Leu Met Glu Met Glu Asp Ile Arg Gly Leu Val Ile Gly Glu
 690 695 700
 Pro Ser Phe Ala Gly Ile Val Gly Leu Thr Asn Thr Ala Phe Thr Leu
 705 710 715 720
 Arg Val Ser Phe Thr Thr Gln Pro Leu Lys Gln Trp Thr Val Arg Phe
 725 730 735
 Ala Leu Asp Ser Met Val Lys Lys His Phe Asp Leu Ala Asn Val Arg
 740 745 750
 Ala Pro Val Gln Thr Tyr Gln Val Leu Ser Pro Pro Ala Ser Pro Leu
 755 760 765
 Pro Pro Gln Glu Pro Thr Leu
 770 775

<210> 7889

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7889

Glu Glu Ser Pro Val Val Ser Pro Glu Asp Val Ile Met Lys Lys Tyr
 1 5 10 15
 Leu Thr Phe Ile Ile Ala Gly Ala Leu Ala Gly Ala Ser Phe Ser Ala
 20 25 30
 Trp Ser Val Gln Pro Leu Thr Asp Ser Asn Asp Thr Ser Gln Leu Arg
 35 40 45
 Ala Ala Gly Thr Val Ser Val Ser Arg Ala Ser Asn Leu Asp Asp Leu
 50 55 60
 Gln Asn Lys Leu Ala Glu Lys Ala Arg Gln Glu Gly Ala Lys Gly Phe
 65 70 75 80
 Val Val Asn Ala Ala Gly Gly Asp Asn His Met Tyr Gly Thr Ala Thr
 85 90 95
 Ile Tyr Lys
 100

<210> 7890

<211> 861

<212> PRT

<213> Enterobacter cloacae

<400> 7890

Thr Arg Ser Leu Ile Val Leu Pro Gly Asn Lys Ile Ile Met Tyr Ser
 1 5 10 15
 His Lys Lys Pro Phe Thr Cys Arg Phe Ser Ser Leu Leu Met Ala Ile
 20 25 30
 Cys Cys Leu Ala Met Ala Ile Phe Ala Gln Gln Val Leu Ala Asp Asp
 35 40 45
 Tyr Phe Asn Pro Ala Leu Leu Asp Ile Asp Asn Pro Gln Gln Gly Lys
 50 55 60
 Thr Asp Leu Ser Val Tyr Glu Lys Gly Pro Gly Gln Ala Pro Gly Lys
 65 70 75 80
 Tyr Gln Val Ala Ile Phe Ile Asn Asn Asn Lys Ile Asp Thr Arg Asp
 85 90 95
 Val Thr Phe Asn Leu Val Lys Asp Pro Gln Gly Thr Ser Thr Leu Gln
 100 105 110
 Pro Cys Phe Thr Leu Asp Glu Leu Lys Ser Leu Gly Ile Lys Thr Gln
 115 120 125
 Lys Tyr Pro Gln Leu Arg Ala Lys Gly Gln Cys Ala Asp Leu His Ala

130	135	140
Ile Pro Ser Ala Ser Ala	Thr Phe Arg Val Arg	Asn Gln Gln Leu Leu
145	150	155
Leu Ser Ile Pro Gln Lys	Ala Leu Gly Gln Val	Pro Arg Gly Tyr Ile
165	170	175
Asp Pro Lys Glu Phe Asp	Glu Gly Ile Asn Ala	Gly Leu Leu Asn Tyr
180	185	190
Ser Val Asn Ala Ser Gln	Ser His Ala Arg Gln	Gln Gly Glu Glu Asn
195	200	205
Ser Ser Ser Gln Tyr Val	Asn Leu Arg Pro Gly	Phe Asn Ile Gly Ala
210	215	220
Trp Arg Val Arg Asn Tyr	Ser Thr Trp Asn Arg	Ser Thr Thr Gly His
225	230	235
Glu Glu Glu Gln Lys Phe	Thr Ser Val Tyr Thr	Tyr Ala Gln Arg Asp
245	250	255
Ile Val Ala Met Lys Ser	Asp Val Thr Val Gly	Gln Ser Thr Ser Pro
260	265	270
Ser Asp Val Phe Asp Ser	Val Pro Tyr Thr Gly	Val Glu Leu Lys Ser
275	280	285
Asp Ser Asp Met Leu Pro	Asp Ser Glu Lys Gly	Tyr Ala Pro Ile Ile
290	295	300
Arg Gly Ser Ala His Ser	Asn Ala Gln Val Val	Val Arg Gln Asn Gly
305	310	315
Tyr Ile Ile Tyr Gln Asn	Thr Val Ala Pro Gly	Ala Phe Glu Ile Asn
325	330	335
Asp Leu Tyr Pro Thr Gly	Ser Ser Gly Asp Leu	Gln Val Thr Val Lys
340	345	350
Glu Thr Asp Gly Ser Glu	Ser His Phe Val Val	Pro Phe Ala Ser Val
355	360	365
Pro Val Leu Gln Arg Glu	Lys Asn Leu Arg Tyr	Ser Val Thr Ala Gly
370	375	380
Arg Tyr Arg Ser Tyr Asp	Lys Asp Val Glu Lys	Thr Pro Phe Ala Gln
385	390	395
Gly Ser Ala Ile Tyr Gly	Leu Pro Phe Gly Phe	Thr Val Tyr Gly Gly
405	410	415
Val Gln Gln Ser Asn His	Tyr Gln Ser Gln Ala	Ile Gly Ala Gly Lys
420	425	430
Asn Met Gly Asp Leu Gly	Ala Phe Ser Ile Asp	Val Thr Arg Ala Arg
435	440	445
Ala Leu Leu Lys Lys Gln	Gln Ser Ser Lys Gly	Gln Ser Trp Arg Ile
450	455	460
Arg Tyr Ser Lys Asp Phe	Ala Gly Ser Gly Thr	Asn Phe Thr Leu Ala
465	470	475
Gly Tyr Arg Tyr Asn Ser	Lys Gly Phe Tyr Thr	Leu Asp Asp Thr Met
485	490	495
Glu Ser Tyr Thr Arg Ser	Asp Asn Trp Ser Ala	Pro Gln Gln Arg Arg
500	505	510
Ala Arg Thr Glu Ala Thr	Ile Asp Gln Thr Leu	Pro Glu Gly Trp Gly
515	520	525
Ser Val Thr Leu Ser Met	Val Lys Glu Thr Tyr	Trp Ser Gln Ser Gln
530	535	540
Asn Met Thr Ser Met Ser	Val Ser Tyr Asn Asn	Ser Trp His Gly Val
545	550	555
Ser Tyr Ser Leu Ser Tyr	Ser Met Asn Lys Asn	Thr Gln Asp Ser Asp
565	570	575
Glu Asp Gly Asn Glu Val	Thr Asn Asp Asn Gln	Phe Ser Leu Ser Val
580	585	590
Ser Val Pro Leu Asp Arg	Trp Met His Asn Thr	Trp Ala Thr Tyr Asn
595	600	605
Leu Asn Asn Thr Lys Asp	Gly Thr Thr Gln Asn	Ile Gly Leu Asn Gly
610	615	620

Thr Ala Leu Lys Glu Asp Asn Leu Asn Trp Asn Ile Gln Glu Gly Leu
 625 630 635 640
 Ser Ser Thr Gly Ser Gly Asn Ser Thr Ser Ile Asn Ala Asp Tyr Lys
 645 650 655
 Ala Thr Tyr Gly Glu Val Ser Ala Gly Val Ser Gln Asp Lys Tyr Gln
 660 665 670
 Gln Thr Leu Asn Val Gly Leu Gln Gly Gly Val Val Ala His Ala Asn
 675 680 685
 Gly Ile Thr Leu Ser Gln Pro Leu Gly Asp Thr Ile Ala Leu Val Lys
 690 695 700
 Ala Pro Gly Thr His Gly Thr His Ile Thr Asn Gln Thr Gly Val Glu
 705 710 715 720
 Thr Asp Phe Arg Gly Tyr Thr Val Val Pro Phe Val Thr Ala Tyr Arg
 725 730 735
 Arg Asn Thr Ile Ala Leu Asp Thr Glu Thr Leu Pro Asp Asn Ala Asp
 740 745 750
 Val Thr His Ala Ala Gln Ile Val Thr Pro Thr Arg Gly Ala Val Val
 755 760 765
 Arg Ala Ser Phe Asn Thr Arg Val Gly Asn Arg Val Leu Met Thr Leu
 770 775 780
 Thr Gln Lys Gly Lys Pro Leu Pro Phe Gly Ala Thr Val Thr Thr Glu
 785 790 795 800
 Asp Lys Asp Ser Glu Phe Ile Val Gly Asn Asp Gly Gln Thr Tyr Leu
 805 810 815
 Ser Gly Leu Pro Gln Gln Gly His Leu Tyr Val Ser Trp Gly Gln Gly
 820 825 830
 Ala Asn Glu His Cys Val Ala Asp Tyr Ala Leu Thr Asp Glu Lys Glu
 835 840 845
 Gln Thr Ser Ile Ile Asn Ala Ala Gln Cys His
 850 855 860

<210> 7891

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7891

Val Thr Asn Met Lys Lys Thr Ile Ala Phe Leu Thr Met Gly Leu Leu
 1 5 10 15
 Ala Gln Ala His Ala Asp Asp Ile Gln Ile Gln Met Thr Gly Asn Ile
 20 25 30
 Tyr Ala Asn Thr Cys Ile Ile Asp Ser Ala Ser Arg Asn Leu Thr Val
 35 40 45
 Asp Leu Gly Gln Thr Val Ser Gly Ser Phe Lys Asp Val Gly Asp Thr
 50 55 60
 Gly Glu Trp Lys Asp Phe Ser Leu Ser Val Ser His Cys Pro Ala Thr
 65 70 75 80
 Leu Ala Leu Ala Thr Ala Phe Phe Tyr Gly Gln Ala Asp Ser Val His
 85 90 95
 Pro Thr Lys Phe Ala Asn Ile Gly Ser Ala Lys Gly Leu Ala Leu Glu
 100 105 110
 Leu Ala Asp Arg Gln Asp Lys Ile Leu Ile Ala Pro Gln Ala Ala Phe
 115 120 125
 Asn Ala Ala Ile Asn Pro Ser Asp His Thr Ala Thr Phe Leu Leu Ser
 130 135 140
 Ala Arg Tyr Tyr Ala Thr Ser Met Pro Val Thr Ala Gly Thr Phe Ser
 145 150 155 160
 Ser Val Ile Gln Val Thr Phe Thr Tyr Gln
 165 170

<210> 7892

<211> 408
 <212> PRT
 <213> Enterobacter cloacae

<400> 7892

Lys	Arg	Arg	Pro	Pro	Thr	Thr	Arg	Ser	Gln	Thr	Arg	Pro	Trp	Ser	Arg
1				5					10					15	
Arg	Leu	Ser	Pro	Ser	Ser	Thr	Thr	Gly	Ile	Arg	Arg	Ile	Leu	Met	Arg
			20					25					30		
Ser	Asn	Ala	Leu	Ser	Trp	Arg	Arg	Val	Arg	Ala	Leu	Cys	Val	Lys	Glu
		35					40					45			
Thr	Arg	Gln	Ile	Val	Arg	Asp	Pro	Ser	Ser	Trp	Leu	Ile	Ala	Val	Val
	50					55					60				
Ile	Pro	Leu	Leu	Leu	Leu	Phe	Ile	Phe	Gly	Tyr	Gly	Ile	Asn	Leu	Asp
65					70					75					80
Ser	Ser	Lys	Leu	Arg	Val	Gly	Ile	Leu	Leu	Glu	Gln	Gln	Ser	Glu	Glu
				85					90					95	
Ala	Leu	Asp	Phe	Thr	His	Ala	Met	Thr	Gly	Ser	Pro	Tyr	Ile	Asp	Ala
			100						105					110	
Thr	Ile	Ser	Asp	Asn	Arg	Gln	Glu	Leu	Ile	Gln	Lys	Met	Gln	Ala	Gly
		115					120					125			
Lys	Ile	Arg	Gly	Leu	Ile	Val	Ile	Pro	Val	Asp	Phe	Ala	Ala	Asn	Met
	130					135					140				
Ala	Arg	Ala	Asn	Thr	Asp	Ala	Pro	Ile	Gln	Val	Ile	Thr	Asp	Gly	Ser
145					150					155					160
Glu	Pro	Asn	Thr	Ala	Asn	Phe	Val	Gln	Gly	Tyr	Ala	Glu	Gly	Ile	Trp
				165					170					175	
Gln	Leu	Trp	Gln	Met	Gln	Arg	Ala	Glu	Asp	Arg	Gly	Glu	Glu	Phe	Glu
			180					185					190		
Pro	Leu	Ile	Asp	Val	Gln	Thr	Arg	Tyr	Trp	Phe	Asn	Pro	Ala	Ala	Ile
		195					200					205			
Ser	Gln	His	Phe	Ile	Ile	Pro	Gly	Ala	Val	Thr	Ile	Ile	Met	Thr	Val
	210					215					220				
Ile	Gly	Ala	Ile	Leu	Thr	Ser	Leu	Val	Ile	Ala	Arg	Glu	Trp	Glu	Arg
225					230					235					240
Gly	Thr	Met	Glu	Ala	Leu	Leu	Ser	Thr	Glu	Val	Thr	Arg	Val	Glu	Leu
			245						250					255	
Leu	Leu	Cys	Lys	Leu	Ile	Pro	Tyr	Tyr	Phe	Leu	Gly	Met	Leu	Ala	Met
			260					265					270		
Leu	Leu	Cys	Met	Leu	Val	Ser	Val	Phe	Ile	Leu	Gly	Val	Pro	Tyr	Arg
		275					280					285			
Gly	Ser	Leu	Val	Val	Leu	Phe	Phe	Ile	Thr	Ser	Leu	Phe	Leu	Leu	Ser
	290					295					300				
Thr	Leu	Gly	Met	Gly	Leu	Leu	Ile	Ser	Thr	Ile	Thr	Arg	Asn	Gln	Phe
305					310					315					320
Asn	Ala	Ala	Gln	Val	Ala	Leu	Asn	Ala	Ala	Phe	Leu	Pro	Ser	Ile	Met
			325						330					335	
Leu	Ser	Gly	Phe	Ile	Phe	Gln	Ile	Asp	Ser	Met	Pro	Ala	Val	Ile	Arg
			340					345					350		
Ala	Val	Thr	Tyr	Ile	Ile	Pro	Ala	Arg	Tyr	Phe	Val	Ser	Thr	Leu	Gln
		355					360					365			
Ser	Leu	Phe	Leu	Ala	Gly	Asn	Ile	Pro	Val	Val	Leu	Ile	Ile	Asn	Thr
	370					375					380				
Leu	Phe	Leu	Met	Ala	Ser	Ala	Val	Met	Phe	Ile	Gly	Leu	Thr	Trp	Met
385					390					395					400
Lys	Thr	Lys	Arg	Arg	Leu	Asp									
					405										

<210> 7893
 <211> 272
 <212> PRT

<213> Enterobacter cloacae

<400> 7893

Asn	Trp	His	Asp	Phe	Phe	Ile	Val	Pro	Glu	Val	Leu	Ala	Gly	Asp	Arg
1				5					10					15	
Pro	Val	Asp	Ile	Lys	Gly	Asn	Ala	Met	Lys	Ser	Val	Leu	Lys	Val	Ser
			20					25					30		
Leu	Ala	Ala	Leu	Thr	Leu	Ala	Phe	Ala	Val	Ser	Ser	Gln	Ala	Ala	Asp
		35					40					45			
Lys	Leu	Val	Val	Ala	Thr	Asp	Thr	Ala	Phe	Val	Pro	Phe	Glu	Phe	Lys
	50					55					60				
Gln	Gly	Asp	Lys	Tyr	Val	Gly	Phe	Asp	Val	Asp	Leu	Trp	Ala	Ala	Val
65					70					75					80
Ala	Lys	Glu	Leu	Lys	Leu	Asp	Tyr	Thr	Leu	Lys	Pro	Met	Asp	Phe	Ser
				85					90					95	
Gly	Ile	Ile	Pro	Ala	Leu	Gln	Thr	Lys	Asn	Val	Asp	Leu	Ala	Leu	Ala
			100					105					110		
Gly	Ile	Thr	Ile	Thr	Glu	Glu	Arg	Lys	Lys	Ala	Ile	Asp	Phe	Ser	Asp
		115					120					125			
Gly	Tyr	Tyr	Lys	Ser	Gly	Leu	Val	Met	Val	Lys	Ala	Asp	Asn	Asn	
	130					135					140				
Asp	Val	Lys	Ser	Val	Lys	Asp	Leu	Asp	Gly	Lys	Val	Val	Ala	Val	Lys
145					150					155					160
Ser	Gly	Thr	Gly	Ser	Val	Asp	Tyr	Ala	Lys	Ala	Asn	Ile	Lys	Thr	Lys
				165					170					175	
Asp	Leu	Arg	Gln	Phe	Pro	Asn	Ile	Asp	Asn	Ala	Tyr	Met	Glu	Leu	Gly
			180					185					190		
Thr	Asn	Arg	Ala	Asp	Ala	Val	Leu	His	Asp	Thr	Pro	Asn	Ile	Leu	Tyr
		195					200					205			
Phe	Ile	Lys	Thr	Ala	Gly	Asn	Gly	Lys	Phe	Lys	Ala	Val	Gly	Asp	Ser
	210					215					220				
Leu	Glu	Ala	Gln	Gln	Tyr	Gly	Ile	Ala	Phe	Pro	Lys	Gly	Ser	Asp	Asp
225					230					235					240
Leu	Arg	Asn	Lys	Val	Asn	Gly	Ala	Leu	Lys	Thr	Leu	Lys	Glu	Asn	Gly
				245					250					255	
Thr	Tyr	Asn	Glu	Ile	Tyr	Lys	Lys	Trp	Phe	Gly	Thr	Glu	Pro	Lys	
			260					265					270		

<210> 7894

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7894

Arg	Pro	Val	Ala	Leu	Thr	Leu	Thr	Gly	Pro	Thr	Phe	Phe	Val	Phe	His
1				5					10					15	
His	Gly	Ile	Gln	Glu	Tyr	Ile	Met	Gln	Phe	Asp	Trp	Ser	Ala	Ile	Trp
			20					25					30		
Pro	Ala	Ile	Pro	Leu	Leu	Leu	Glu	Gly	Ala	Lys	Met	Thr	Leu	Trp	Ile
		35					40					45			
Ser	Val	Leu	Gly	Leu	Val	Gly	Gly	Leu	Ile	Ile	Gly	Leu	Val	Ala	Gly
	50					55					60				
Phe	Ala	Arg	Thr	Tyr	Gly	Gly	Trp	Ile	Ala	Asn	His	Ile	Ala	Leu	Val
65					70					75					80
Phe	Ile	Glu	Val	Ile	Arg	Gly	Thr	Pro	Ile	Val	Val	Gln	Val	Met	Phe
				85					90					95	
Ile	Tyr	Phe	Ala	Leu	Pro	Met	Ala	Phe	Thr	Asp	Leu	Arg	Ile	Asp	Pro
			100					105					110		
Phe	Ser	Ala	Ala	Val	Val	Thr	Ile	Met	Ile	Asn	Ser	Gly	Ala	Tyr	Ile
		115					120					125			
Ala	Glu	Ile	Thr	Arg	Gly	Ala	Val	Leu	Ser	Ile	His	Lys	Gly	Phe	Ser

130		135		140	
Glu	Ala	Gly	Leu	Ala	Leu
145				150	Gly
Val	Ile	Leu	Pro	Leu	Ala
				165	Leu
Gln	Trp	Ile	Ile	Ser	Ile
				180	Lys
Val	Ala	Glu	Leu	Thr	Arg
				195	Gln
Arg	Ala	Leu	Glu	Ile	Trp
				210	Ser
Thr	Leu	Val	Leu	Ser	Phe
225				230	Val
Ile	Leu				Leu

<210> 7895

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7895

Lys	Arg	Pro	Gly	Asn	Val	Phe	Ala	Arg	Asn	Ile	Ser	Gly	Phe	Thr	Met
1				5					10					15	
Asn	Lys	Val	Ala	Leu	Gly	Leu	Phe	Ile	Ala	Ala	Thr	Val	Gly	Cys	Ser
			20					25					30		
Ala	Ser	Ala	Phe	Ala	Ala	Thr	Asn	Gly	Glu	Gly	Gln	Ile	Asn	Phe	Thr
			35				40					45			
Gly	Glu	Ile	Ile	Asp	Ser	Ala	Cys	Gln	Val	Val	Asn	Gly	Leu	Ser	Asn
			50			55					60				
Pro	Leu	Asp	Val	Gln	Leu	Gly	Lys	Val	Ser	Lys	Thr	Val	Phe	Thr	Gly
65					70					75					80
Ala	Gly	Ser	Thr	Ser	Thr	Leu	Thr	Lys	Phe	Asp	Ile	Lys	Leu	Thr	Asn
				85					90					95	
Cys	Pro	Glu	Thr	Val	Thr	Ser	Ala	Ala	Ile	Asn	Phe	Gly	Gly	Thr	Pro
			100					105					110		
Asp	Ala	Asp	Asn	Asn	Ala	Ala	Leu	Ala	Leu	Thr	Pro	Asp	Thr	Asp	Ala
			115				120					125			
Ala	Thr	Gly	Val	Ala	Ile	Gln	Leu	Val	Asp	Thr	Ser	Gly	Gln	Pro	Val
			130			135					140				
Ser	Leu	Tyr	Thr	Pro	Ser	Lys	Gln	Tyr	Pro	Leu	Ala	Ser	Gly	Thr	Ala
145					150					155					160
Val	Asn	Asp	Leu	Glu	Phe	Gly	Ala	Arg	Tyr	Ile	Gln	Thr	Gln	Ala	Ala
				165				170						175	
Val	Thr	Ala	Gly	Pro	Ala	Asn	Ser	Val	Ser	Thr	Phe	Thr	Val	Ile	Tyr
			180					185					190		

Asn

<210> 7896

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7896

Glu	Ile	Phe	Met	Arg	His	Gly	Tyr	Leu	Leu	Ser	Ile	Leu	Leu	Leu	Val
1				5				10						15	
Ala	Ala	Ser	Ala	Gln	Ala	Gly	Val	Val	Ile	Asn	Gly	Thr	Arg	Leu	Val
			20					25					30		
Tyr	Gln	Gly	Asp	Lys	Lys	Glu	Ser	Ser	Leu	Gly	Leu	Ser	Asn	Pro	Asp
			35				40					45			

Thr Thr Asp Tyr Leu Val Gln Ser Trp Val Asp Ser Gly Gly Lys Asn
 50 55 60
 Gln Ala Lys Ala Pro Phe Leu Ile Thr Pro Pro Leu Phe Arg Leu Asp
 65 70 75 80
 Ala Lys Glu Asp Asn Val Leu Arg Val Val Arg Thr Gly Gly Asn Leu
 85 90 95
 Pro Glu Asp Arg Glu Ser Leu Tyr Trp Leu Asn Ile Lys Ala Ile Pro
 100 105 110
 Ser Ser Lys His Val Glu Gly Val Asn Thr Leu Gln Ile Ala Ile Asn
 115 120 125
 Thr Arg Ile Lys Leu Leu Tyr Arg Pro Ser Ala Val Lys Gly Arg Pro
 130 135 140
 Glu Asp Val Ala Asp Lys Leu Glu Trp His Arg Glu Gly Asn Asp Leu
 145 150 155 160
 Val Val Asn Asn Pro Thr Pro Phe Phe Met Asn Phe Gln Thr Val Thr
 165 170 175
 Leu Asn Gly Gln Lys Val Lys Lys Ala Thr Trp Ala Val Pro Lys Thr
 180 185 190
 Glu Thr His Phe Ala Leu Pro Gly Asn Val Gly Gly Ser Thr Val Ala
 195 200 205
 Tyr Ser Ile Ile Thr Asp Tyr Gly Ser Ile Ser Gln Thr Trp Ser Lys
 210 215 220
 Pro Val His
 225

<210> 7897

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 7897

Arg Met Arg Lys Ser Lys Pro Ala Ser Leu Thr Leu Pro Arg Ser Val
 1 5 10 15
 Thr Asp Pro Pro Phe Arg Leu Thr Ile Met Gln Met Ile Lys Gln Cys
 20 25 30
 Phe Phe Leu Leu Val Leu Gly Thr Ala Ala Leu Phe Met Pro His Ala
 35 40 45
 Lys Ala Thr Cys Thr Thr Pro Asp Leu Pro Lys Met Ile Asn Met Ala
 50 55 60
 Ser Ile Ser Val Pro Thr Thr Leu Ala Val Gly Ala Thr Ile Pro Gly
 65 70 75 80
 Thr Glu Gln Ser Val His Val Ala Gly His Cys Asp Gln Ser Ile Asp
 85 90 95
 Ser Gly Leu Glu Ile Val Ser Cys Tyr Tyr Gly Thr Gly Ala Glu Ile
 100 105 110
 Pro Gly Leu Lys Gly Val Tyr Glu Ser Gly Val Pro Gly Val Gly Val
 115 120 125
 Ala Leu Met Asn Asp Gln Gly Gln Arg Ile Ser Gly Ala Gly Gly Val
 130 135 140
 Gln Cys Asp Ser Arg Gly Thr Pro Val Gly Tyr Val Ser Gly Asp Gly
 145 150 155 160
 Thr Gln Ser Phe Asn Phe Asp Val Thr Leu Glu Leu Val Lys Thr Ser
 165 170 175
 Asp Ala Val Thr Ser Gly Thr Leu Val Gln Ser Gln Thr Glu Phe Gly
 180 185 190
 Ile Gly Val Phe Gly His Glu Gly Ile Gly Ser Pro Asn His Ile Ala
 195 200 205
 Tyr Ala Gly Asn Val Ile Leu His Gln Val Thr Cys Ser Val Ser Pro
 210 215 220
 Lys Asn Leu Thr Val Asn Leu Gly Asp Phe Pro Val Ser Asp Phe Met
 225 230 235 240

Ser Val Gly Phe Leu Ser Ser Pro Ala Gln Thr Phe Asn Ile Thr Val
 245 250 255
 Asn Cys Asp Thr Val Gln Pro Glu Leu Lys Ile Thr Ser Ala Asn
 260 265 270
 Ser Tyr Glu Thr Ala Phe Glu Gly Val Ile Lys Leu Thr Lys Gln Thr
 275 280 285
 Gly Met Ala Thr Gly Val Gly Val Arg Met Leu Phe Asp Asp Arg Ile
 290 295 300
 Ala Thr Phe Asp Thr Tyr Val Asn Thr Gln Ser Gln Ala Val Ala Asn
 305 310 315 320
 Glu Thr Leu Glu Ile Pro Phe Gln Val Arg Tyr Glu Gln Ile Ser Asp
 325 330 335
 Val Val Thr Pro Gly Pro Ala Asn Thr Val Ala Thr Ile Thr Leu Ala
 340 345 350
 Tyr Lys
 355

<210> 7898

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7898

Ser Asp Pro Ala Arg Leu Asn Ala Lys Glu Pro Glu Val Met Lys Lys
 1 5 10 15
 Pro Val Ala Ile Ile Leu Val Val Val Val Leu Leu Ala Ala Gly Thr
 20 25 30
 Gly Gly Trp Leu Trp Tyr Gln Ser Gln Gln Asp Arg Gly Leu Thr Leu
 35 40 45
 Tyr Gly Asn Val Asp Ile Arg Thr Val Asn Met Ser Phe Arg Val Gly
 50 55 60
 Gly Arg Leu Ala Ser Leu Asn Val Asp Glu Gly Asp Ala Ile Lys Ala
 65 70 75 80
 Gly Gln Thr Leu Gly Met Leu Asp Lys Ala Pro Phe Glu Asn Ala Leu
 85 90 95
 Met Gln Ala Lys Ala Gly Val Ser Val Ala Gln Ala Gln Tyr Asp Leu
 100 105 110
 Met Leu Ala Gly Tyr Arg Asp Glu Glu Ile Ser Gln Ala Ala Ala
 115 120 125
 Val Lys Gln Ala Lys Ala Ala Tyr Asp Tyr Ala Gln Asn Phe Tyr Asn
 130 135 140
 Arg Gln Gln Gly Leu Trp Lys Ser Arg Thr Ile Ser Ala Asn Asp Leu
 145 150 155 160
 Glu Asn Ala Arg Ser Ser Arg Asp Gln Ala Gln Ala Thr Leu Lys Ser
 165 170 175
 Ala Gln Asp Lys Leu Ser Gln Tyr Arg Thr Gly Asn Arg Ala Gln Asp
 180 185 190
 Ile Ala Gln Ala Lys Ala Ser Leu Glu Gln Ala Gln Ala Gln Leu Ala
 195 200 205
 Gln Ala Glu Leu Asp Leu His Asp Thr Thr Leu Ile Ala Pro Ser Asp
 210 215 220
 Gly Thr Leu Met Thr Arg Ala Val Glu Pro Gly Ser Met Leu Ser Ala
 225 230 235 240
 Gly Ser Thr Val Leu Thr Leu Ser Leu Thr Arg Pro Val Trp Val Arg
 245 250 255
 Ala Tyr Ile Asp Glu Pro Asn Leu Gly Gln Met Gln Pro Gly Arg Glu
 260 265 270
 Leu Leu Leu Tyr Thr Asp Gly Arg Pro Asp Lys Pro Tyr His Gly Lys
 275 280 285
 Val Gly Phe Val Ser Pro Thr Ala Glu Phe Thr Pro Lys Thr Val Glu
 290 295 300

Thr Pro Asp Leu Arg Thr Asp Leu Val Tyr Arg Leu Arg Ile Ile Val
 305 310 315 320
 Thr Asp Ala Asp Asp Ala Leu Arg Gln Gly Met Pro Val Thr Val Thr
 325 330 335
 Leu Asn Asp Gly Glu Arg His Glu
 340 345

<210> 7899

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7899

Thr Asp Gln Glu Asn Met Met Ala Ser Gly Trp Ala Asn Asp Asp Ala
 1 5 10 15
 Val Asn Glu Gln Ile Asn Ser Thr Ile Glu Asp Ala Val Ala Arg Ala
 20 25 30
 Arg Gly Glu Ile Pro Arg Gly Glu Ser Leu Thr Glu Cys Glu Glu Cys
 35 40 45
 Gly Asp Pro Ile Pro Glu Ala Arg Arg Lys Ala Ile Pro Gly Val Arg
 50 55 60
 Leu Cys Ile Ala Cys Gln Gln Glu Lys Asp Ser Lys Asn Ala Thr His
 65 70 75 80
 Ser Gly Tyr Asn Arg Arg Gly Ser Lys Asp Ser Gln Leu Arg
 85 90 95

<210> 7900

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 7900

Pro Met Lys Thr Ile Lys Tyr Ala Val Ala Ala Val Ala Leu Ser Ala
 1 5 10 15
 Leu Ser Phe Gly Ala Phe Ala Val Glu Pro Val Ser Ser Thr Gln Ala
 20 25 30
 Gln Asp Leu Asn Lys Ile Gly Val Val Ser Ala Glu Gly Ala Thr Thr
 35 40 45
 Leu Asp Gly Leu Glu Ala Lys Leu Ala Glu Lys Ala Ala Ala Gly
 50 55 60
 Ala Ser Gly Tyr Thr Ile Thr Ser Thr Asn Gly Asn Asn Lys Leu Ser
 65 70 75 80
 Gly Thr Ala Val Ile Tyr Lys
 85

<210> 7901

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 7901

Leu Ile Phe Asn Ala Ala Met Asn Thr Thr Pro Ala Thr Thr Lys Gly
 1 5 10 15
 Glu Gln Ala Lys Ser Gln Leu Ile Ala Ala Ala Leu Ala Gln Phe Gly
 20 25 30
 Glu Tyr Gly Leu His Ala Thr Thr Arg Asp Ile Ala Ala Gln Ala Gly
 35 40 45
 Gln Asn Ile Ala Ala Ile Thr Tyr Tyr Phe Gly Ser Lys Glu Asp Ser
 50 55 60
 Tyr Leu Ala Cys Ala Gln Trp Ile Ala Asp Phe Ile Gly Thr Ser Phe
 65 70 75 80

Arg Pro His Val Glu Glu Ala Thr Ala Leu Phe Ser Gln Pro Glu Pro
 85 90 95
 Asp Arg Ala Ala Ile Arg Gln Leu Ile Leu Asn Ala Cys His Asn Met
 100 105 110
 Ile Arg Leu Leu Thr His Asp Asp Thr Leu Asn Leu Ser Lys Phe Ile
 115 120 125
 Ser Arg Glu Gln Leu Ser Pro Thr Ala Ala Tyr Gln Leu Val His Asp
 130 135 140
 Gln Val Ile Ala Pro Met His Ser His Leu Thr Arg Leu Ile Ala Ala
 145 150 155 160
 Tyr Thr Gly Arg Asp Ala Ser Asp Thr Asp Thr Ile Leu His Thr His
 165 170 175
 Ala Leu Leu Gly Glu Val Leu Ala Phe Arg Leu Gly Arg Glu Thr Ile
 180 185 190
 Leu Leu Arg Thr Gly Trp Thr Gln Phe Asp Glu Asp Lys Ala Ala Gln
 195 200 205
 Ile Ser Gln Val Ile Thr Cys His Val Asp Leu Ile Leu Gln Gly Leu
 210 215 220
 Thr Gln Arg Ser Gln Lys Ser
 225 230

<210> 7902

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 7902

Thr Thr Gly Asn Asp Met Asn Asp Ala Val Ile Gln Leu Asn Asn Leu
 1 5 10 15
 Val Lys Arg Phe Pro Gly Met Ala Lys Pro Ala Val Ala Pro Leu Asn
 20 25 30
 Cys Thr Ile Gln Lys Gly Tyr Val Thr Gly Leu Val Gly Pro Asp Gly
 35 40 45
 Ala Gly Lys Thr Thr Leu Met Arg Met Leu Ala Gly Leu Leu Lys Pro
 50 55 60
 Asp Glu Gly Ser Ala Ser Val Leu Gly Leu Asn Pro Ile Lys Asp Asp
 65 70 75 80
 Ala Ala Leu His Gly Ile Leu Gly Tyr Met Pro Gln Lys Phe Gly Leu
 85 90 95
 Tyr Glu Asp Leu Thr Val Met Glu Asn Leu Asn Leu Tyr Ala Asp Leu
 100 105 110
 Arg Ser Val Thr Gly Glu Thr Arg Glu Lys Thr Phe Ala Arg Leu Leu
 115 120 125
 Glu Phe Thr Ser Leu Gly Pro Phe Thr Asp Arg Leu Ala Gly Lys Leu
 130 135 140
 Ser Gly Gly Met Lys Gln Lys Leu Gly Leu Ala Cys Thr Leu Val Gly
 145 150 155 160
 Glu Pro Lys Val Leu Leu Leu Asp Glu Pro Gly Val Gly Val Asp Pro
 165 170 175
 Ile Ser Arg Arg Glu Leu Trp Gln Met Val His Glu Leu Ala Gly Asp
 180 185 190
 Gly Met Leu Ile Leu Trp Ser Thr Ser Tyr Leu Asp Glu Ala Glu Gln
 195 200 205
 Cys Arg Asp Val Leu Leu Met Asn Glu Gly Glu Leu Leu Tyr Gln Gly
 210 215 220
 Glu Pro Thr Glu Leu Thr Gln Thr Met Ala Gly Arg Ser Phe Leu Leu
 225 230 235 240
 His Ser Ala Gln Glu Ser Asn Arg Thr Leu Leu Gln Arg Val Leu Lys
 245 250 255
 Leu Pro Gln Val Ser Asp Gly Met Ile Gln Gly Arg Ser Val Arg Val
 260 265 270

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Ile Leu Lys Lys Glu Ala Thr Ala Asp Asp Ile Arg Arg Ala Gln Gly
      275      280      285
Met Pro Glu Ile Asp Met Thr Glu Thr Ser Pro Arg Phe Glu Asp Ala
      290      295      300
Phe Ile Asp Leu Leu Gly Gly Ala Gly Thr Ser Glu Ser Pro Leu Gly
305      310      315      320
Ala Ile Leu His Thr Val Glu Gly Thr Pro Gly Glu Thr Val Ile Glu
      325      330      335
Ala Lys Ser Leu Thr Lys Lys Phe Gly Asp Phe Ala Ala Thr Asp Asn
      340      345      350
Val Asn Phe Ala Val Lys Arg Gly Glu Ile Phe Gly Leu Leu Gly Pro
      355      360      365
Asn Gly Ala Gly Lys Ser Thr Thr Phe Lys Met Met Cys Gly Leu Leu
      370      375      380
Val Pro Thr Ser Gly Lys Ala Leu Val Leu Asn Met Asp Leu Lys Val
385      390      395      400
Ser Ser Gly Lys Ala Arg Gln His Leu Gly Tyr Met Ala Gln Lys Phe
      405      410      415
Ser Leu Tyr Gly Asn Leu Thr Val Glu Gln Asn Leu Arg Phe Phe Ser
      420      425      430
Gly Val Tyr Gly Leu Arg Gly Arg Ala Gln Asn Gln Lys Ile Gly Arg
      435      440      445
Met Cys Asp Ala Phe Gly Leu Thr Asp Ile Ala Ser Gln Ala Thr Asp
      450      455      460
Ala Leu Pro Leu Gly Phe Lys Gln Arg Leu Ala Leu Ala Cys Ser Leu
465      470      475      480
Met His Glu Pro Asp Ile Leu Phe Leu Asp Glu Pro Thr Ser Gly Val
      485      490      495
Asp Pro Leu Thr Arg Arg Glu Phe Trp Leu His Ile Asn Ser Met Val
      500      505      510
Glu Lys Gly Val Thr Val Met Val Thr Thr His Phe Met Asp Glu Ala
      515      520      525
Glu Tyr Cys Asp Arg Ile Gly Leu Val Tyr Arg Gly Lys Leu Ile Ala
      530      535      540
His Gly Thr Pro Asp Asp Leu Lys Ala Gln Ala Ala Asp Asp Ser Gln
545      550      555      560
Pro Asp Pro Thr Met Glu Gln Ala Phe Ile Thr Leu Ile His Asp Trp
      565      570      575
Asp Lys Glu Asn Thr His Ala Gln
      580      585

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<210> 7903

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7903

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Trp Ser Gly Arg Phe Gly Val Phe Met Ser Phe Asp Ser Leu Gly Leu
1      5      10      15
Asn Pro Glu Ile Leu Arg Ala Ile Ala Glu Gln Gly Tyr Val Glu Pro
      20      25      30
Thr Pro Ile Gln Gln Gln Ala Ile Pro Ala Val Leu Gln Gly Arg Asp
      35      40      45
Leu Met Ala Ser Ala Gln Thr Gly Thr Gly Lys Thr Ala Gly Phe Thr
      50      55      60
Leu Pro Leu Leu Glu Leu Val Lys Asn Gln Pro His Ala Lys Gly
65      70      75      80
Arg Arg Pro Val Arg Ala Leu Ile Leu Thr Pro Thr Arg Glu Leu Ala
      85      90      95
Ala Gln Ile Gly Glu Asn Val Arg Glu Tyr Ser Arg Tyr Leu Asn Ile
      100      105      110

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Arg Ser Leu Val Val Phe Gly Gly Val Ser Ile Asn Pro Gln Met Met
 115 120 125
 Lys Leu Arg Gly Gly Val Asp Val Leu Val Ala Thr Pro Gly Arg Leu
 130 135 140
 Leu Asp Leu Glu His Gln Asn Ala Val Lys Leu Asp Asn Ile Glu Ile
 145 150 155 160
 Leu Val Leu Asp Glu Ala Asp Arg Met Leu Asp Met Gly Phe Ile His
 165 170 175
 Asp Ile Arg Arg Val Leu Ala Lys Leu Pro Thr Arg Arg Gln Asn Leu
 180 185 190
 Leu Phe Ser Ala Thr Phe Ser Asp Glu Ile Lys Ala Leu Ala Glu Lys
 195 200 205
 Leu Leu His Asn Pro Leu Glu Val Glu Val Ala Arg Arg Asn Thr Ala
 210 215 220
 Ser Glu Gln Val Thr Gln His Val His Phe Val Asp Lys Lys Arg Lys
 225 230 235 240
 Arg Glu Leu Leu Ser Gln Met Ile Gly Gln Gly Asn Trp Gln Gln Val
 245 250 255
 Leu Val Phe Thr Arg Thr Lys His Gly Ala Asn His Leu Ala Glu Gln
 260 265 270
 Leu Asn Lys Asp Gly Ile Arg Ser Ala Ala Ile His Gly Asn Lys Ser
 275 280 285
 Gln Gly Ala Arg Thr Arg Ala Leu Ala Asp Phe Lys Ser Gly Asp Ile
 290 295 300
 Arg Val Leu Val Ala Thr Asp Ile Ala Ala Arg Gly Leu Asp Ile Glu
 305 310 315 320
 Glu Leu Pro His Val Val Asn Tyr Glu Leu Pro Asn Val Pro Glu Asp
 325 330 335
 Tyr Val His Arg Ile Gly Arg Thr Gly Arg Ala Ala Ala Thr Gly Glu
 340 345 350
 Ala Leu Ser Leu Val Cys Val Asp Glu His Lys Leu Leu Arg Asp Ile
 355 360 365
 Glu Arg Leu Leu Lys Lys Glu Ile Pro Arg Ile Glu Thr Pro Gly Tyr
 370 375 380
 Glu Val Asp Pro Ser Ile Lys Ala Glu Pro Ile Gln Asn Gly Arg Gln
 385 390 395 400
 Gly Gly Gly Arg Gly Gln Gly Gly Gly Arg Gly Gln Gln Pro Arg
 405 410 415
 Arg Ser Glu Gly Gly Ala Pro Lys Ser Ser Gly Lys Pro Pro Arg Arg
 420 425 430
 Asn Asn Asp Ser Lys Pro Ala Gly Gly Asn Pro Trp Arg Ser Gly Glu
 435 440 445
 Gly Lys Pro Ala Gly Glu Gly Gln Arg Arg Arg Arg Pro Arg Lys Pro
 450 455 460
 Ala Asn Pro Gln
 465

<210> 7904

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 7904

Thr Ser Pro Ile Arg Ser Gln Tyr Ser Ala Ser Ser Ile Lys Trp Val
 1 5 10 15
 Val Thr Ile Thr Val Thr Pro Phe Ser Thr Met Leu Leu Ile Cys Asn
 20 25 30
 Gln Asn Ser Arg Arg Val Arg Gly Ser Thr Pro Asp Val Gly Ser Ser
 35 40 45
 Arg Asn Arg Ile Ser Gly Ser Cys Ile Asn Glu Gln Ala Ser Ala Ser
 50 55 60

Arg Cys Leu Lys Pro Ser Gly Ser Ala Ser Val Ala Cys Glu Ala Ile
 65 70 75 80
 Ser Val Arg Pro Lys Ala Ser His Met Arg Pro Ile Phe Trp Phe Cys
 85 90 95
 Ala Arg Pro Arg Arg Pro
 100

<210> 7905

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7905

Pro Arg Cys Trp Arg Ala Leu Pro Glu Leu Thr Leu Arg Ser Met Phe
 1 5 10 15
 Ser Thr Ser Ala Leu Pro Asp Val Gly Thr Ser Arg Pro His Ile Ile
 20 25 30
 Leu Lys Val Val Asp Phe Pro Ala Pro Phe Gly Pro Ser Arg Pro Asn
 35 40 45
 Ile Ser Pro Arg Phe Thr Ala Lys Leu Thr Leu Ser Val Ala Ala Lys
 50 55 60
 Ser Pro Asn Phe Leu Val Ser Asp Phe Ala Ser Met Thr Val Ser Pro
 65 70 75 80
 Gly Val Pro Ser Thr Val Cys Arg Met Ala Pro Ser Gly Asp Ser Glu
 85 90 95
 Val Pro Ala Pro Pro Ser Arg Ser Ile Asn Ala Ser Ser Lys Arg Gly
 100 105 110
 Glu Val Ser Val Met Ser Ile Ser Gly Ile Pro Cys Ala Arg Arg Ile
 115 120 125
 Ser Ser Ala Val Ala Ser Phe Leu Arg Ile Thr Arg Thr Glu Arg Pro
 130 135 140

145

<210> 7906

<211> 752

<212> PRT

<213> Enterobacter cloacae

<400> 7906

Ser Arg Ala Phe Leu Phe Ala Ala Ala Glu Arg Lys Cys His Asn Ser
 1 5 10 15
 Gly Cys Leu Tyr Ser Ile Ser Gly Phe Pro Met Ala Leu Thr Ala Ala
 20 25 30
 Leu Lys Ala Gln Ile Gly Ala Trp Tyr Lys Ala Leu Gln Gln Ile
 35 40 45
 Pro Asp Phe Ile Pro Arg Ala Pro Gln Arg Gln Met Ile Ala Asp Val
 50 55 60
 Ala Lys Thr Leu Ala Gly Asp Asp Gly Arg His Leu Ala Ile Glu Ala
 65 70 75 80
 Pro Thr Gly Val Gly Lys Thr Leu Ser Tyr Leu Ile Pro Gly Ile Ala
 85 90 95
 Ile Ala Arg Glu Glu Asp Lys Thr Leu Val Val Ser Thr Ala Asn Val
 100 105 110
 Ala Leu Gln Asp Gln Leu Phe Ser Lys Asp Leu Pro Leu Leu Arg Lys
 115 120 125
 Ile Ile Pro Asp Leu Arg Phe Thr Ala Ala Phe Gly Arg Gly Arg Tyr
 130 135 140
 Val Cys Pro Arg Asn Leu Ala Ala Leu Ala Ser Ser Glu Pro Ala Gln
 145 150 155 160
 Gln Asp Leu Leu Ala Phe Leu Asp Asp Glu Leu Thr Pro Asn Asn Lys

				165					170					175			
Ala	Glu	Gln	Glu	Gln	Cys	Ala	Lys	Leu	Lys	Ala	Asp	Leu	Asp	Ser	Tyr		
			180						185				190				
Arg	Trp	Asp	Gly	Leu	Arg	Asp	His	Thr	Ser	Gln	Ala	Ile	Gly	Asp	Asp		
		195					200					205					
Leu	Trp	Arg	Arg	Leu	Ser	Thr	Asp	Lys	Ala	Ser	Cys	Leu	Asn	Arg	Asn		
		210				215				220							
Cys	His	Tyr	Tyr	Arg	Glu	Cys	Pro	Phe	Phe	Val	Ala	Arg	Arg	Glu	Ile		
225					230					235					240		
Gln	Glu	Ala	Glu	Val	Val	Val	Ala	Asn	His	Ala	Leu	Val	Met	Ala	Ala		
				245					250					255			
Leu	Glu	Ser	Glu	Ala	Val	Leu	Pro	Glu	Pro	Lys	Asn	Leu	Leu	Leu	Val		
			260					265					270				
Leu	Asp	Glu	Gly	His	His	Leu	Pro	Asp	Val	Ala	Arg	Asp	Ala	Leu	Glu		
		275					280					285					
Met	Ser	Ala	Glu	Ile	Thr	Ala	Pro	Trp	Phe	Arg	Leu	Gln	Leu	Asp	Leu		
		290				295					300						
Phe	Cys	Lys	Leu	Val	Ala	Thr	Cys	Met	Glu	Gln	Phe	Arg	Pro	Lys	Thr		
305					310					315					320		
Thr	Pro	Pro	Leu	Ala	Val	Pro	Glu	Arg	Leu	Ser	Glu	His	Cys	Glu	Glu		
				325					330					335			
Val	Tyr	Gly	Leu	Ile	Ala	Ser	Leu	Asn	Asn	Ile	Leu	Asn	Leu	Tyr	Leu		
			340					345					350				
Pro	Ala	Thr	Gln	Glu	Ala	Glu	His	Arg	Phe	Ala	Met	Gly	Glu	Leu	Pro		
		355					360					365					
Gln	Glu	Val	Met	Glu	Ile	Cys	Gln	Gln	Leu	Ala	Lys	His	Leu	Glu	Lys		
		370				375					380						
Leu	Arg	Gly	Leu	Ala	Glu	Met	Phe	Leu	Asn	Asp	Leu	Ser	Glu	Lys	Thr		
385					390					395					400		
Gly	Thr	His	Asp	Val	Val	Arg	Leu	His	Arg	Ile	Leu	Leu	Gln	Met	Asn		
			405						410					415			
Arg	Ala	Leu	Gly	Met	Phe	Glu	Ala	Gln	Ser	Lys	Leu	Trp	Arg	Leu	Ala		
			420					425					430				
Ser	Met	Ala	Gln	Ala	Ser	Gly	Ala	Pro	Val	Thr	Lys	Trp	Ala	Thr	Arg		
		435					440					445					
Glu	Val	Arg	Asp	Gly	Gln	Val	His	Leu	Phe	Phe	His	Cys	Val	Gly	Ile		
		450				455					460						
Arg	Val	Ala	Asp	Gln	Leu	Glu	Lys	Leu	Ile	Trp	Arg	Ser	Val	Pro	His		
465					470					475					480		
Val	Val	Val	Thr	Ser	Ala	Thr	Leu	Arg	Ser	Leu	Asn	Ser	Phe	Ser	Arg		
			485						490					495			
Leu	Gln	Glu	Met	Ser	Gly	Leu	Lys	Glu	Lys	Ala	Gly	Asp	Arg	Phe	Val		
			500					505					510				
Ala	Leu	Asp	Ser	Pro	Phe	Asn	His	Cys	Glu	Gln	Gly	Lys	Leu	Val	Ile		
		515	</														

Lys	Ser	Leu	Asn	Arg	Tyr	Pro	Phe	Glu	Val	Gln	Ser	Leu	Pro	Ala	Ala
			660					665					670		
Ser	Phe	Asn	Leu	Ile	Gln	Gln	Val	Gly	Arg	Leu	Ile	Arg	Ser	His	Gly
		675					680					685			
Cys	Trp	Gly	Glu	Val	Val	Ile	Tyr	Asp	Lys	Arg	Leu	Leu	Thr	Lys	Asn
	690					695					700				
Tyr	Gly	Gln	Arg	Leu	Leu	Asn	Ala	Leu	Pro	Ile	Phe	Pro	Ile	Glu	Gln
705					710					715				720	
Pro	Glu	Val	Pro	Glu	Val	Lys	Lys	Arg	Pro	Ala	Lys	Pro	Ser	Ala	Gly
			725					730						735	
Arg	Thr	Lys	Ser	Ile	Arg	Ala	Lys	Arg	Arg	Gly	Pro	Thr	Gly	Lys	
			740					745					750		

<210> 7907

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 7907

Gln	Asp	Asp	Ala	Val	Arg	Arg	Asn	Val	Val	Asp	Tyr	Arg	Lys	Ile	Ile
1				5					10					15	
Lys	Glu	Val	Gly	Arg	Gly	Lys	Asn	His	Ala	Arg	Asp	Leu	Asp	Gln	Glu
			20				25					30			
Thr	Ala	Arg	Ala	Leu	Tyr	Thr	His	Met	Leu	Asn	Gly	Asp	Val	Pro	Glu
		35					40					45			
Leu	Glu	Met	Gly	Gly	Ile	Leu	Ile	Ala	Leu	Arg	Ile	Lys	Gly	Glu	Gly
	50					55					60				
Glu	Ala	Glu	Met	Arg	Gly	Phe	Tyr	Glu	Ala	Met	Gln	Ser	Gln	Thr	Met
65				70					75						80
Arg	Leu	Thr	Pro	Pro	Val	Thr	Lys	Pro	Met	Pro	Met	Pro	Ile	Val	Ile
				85				90						95	
Pro	Thr	Tyr	Asn	Gly	Ala	Arg	Lys	Gln	Ala	Asn	Leu	Thr	Pro	Leu	Leu
			100					105					110		
Ala	Ile	Leu	Leu	Gln	Lys	Leu	Gly	Phe	Pro	Val	Val	Val	His	Gly	Val
		115					120					125			
Ser	Glu	Asp	Pro	Thr	Arg	Val	Leu	Thr	Glu	Thr	Ile	Leu	Glu	Leu	Leu
	130					135					140				
Gly	Ile	Glu	Pro	Thr	Leu	His	Ala	Gly	Gln	Ala	Gln	Ala	Lys	Leu	Glu
145					150					155					160
Gly	Asn	Gln	Pro	Val	Tyr	Ile	Pro	Val	Arg	Ala	Leu	Cys	Pro	Pro	Leu
			165					170						175	
Glu	Lys	Gln	Leu	Asp	Met	Arg	Trp	Arg	Met	Gly	Val	Arg	Asn	Ser	Ala
		180						185					190		
His	Thr	Leu	Ala	Lys	Leu	Ala	Thr	Pro	Phe	Ala	Glu	Asp	Ala	Ala	Leu
		195					200					205			
Arg	Leu	Ser	Ser	Val	Ser	His	Pro	Glu	Tyr	Val	Thr	Arg	Val	Gly	Gln
	210					215					220				
Phe	Phe	Ala	Glu	Ile	Gly	Gly	Arg	Ala	Leu	Leu	Met	His	Gly	Thr	Glu
225				230						235					240
Gly	Glu	Val	Tyr	Ala	Asn	Pro	Gln	Arg	Cys	Pro	Gln	Leu	Met	Leu	Ile
				245					250					255	
Glu	Pro	Ala	Gly	Thr	Arg	Val	Val	Leu	Glu	Arg	Gly	Glu	Glu	Asn	Cys
			260					265					270		
Asp	Val	Ile	Leu	Pro	Glu	Ser	Lys	Asp	Pro	Gln	Val	Thr	Ala	His	Trp
		275					280					285			
Ile	Val	Gln	Cys	Leu	Ala	Gly	Lys	Val	Pro	Val	Pro	Gln	Ser	Ile	Lys
	290					295					300				
Leu	Gln	Met	Ala	Cys	Cys	Leu	Leu	Ala	Ala	Gly	Glu	Val	Ala	Ser	Val
305				310						315					320
Glu	Ala	Gly	Leu	Gln	Arg	Val	Ala	Gln	Ser	Phe					
				325					330						

<210> 7908
 <211> 342
 <212> PRT
 <213> Enterobacter cloacae

<400> 7908

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Gln Ile Ile Asp Ile Gln Val Ala Asp Phe Cys Arg Phe Phe Val Arg
1      5      10      15
Leu Arg Gln Leu Phe Thr Pro Ala Pro Ser Gln Gly Ile Leu Arg Gly
20      25      30
Cys Leu Lys Glu Asn Ala Met Thr Ser Gln Lys Pro Gly Leu His Pro
35      40      45
Arg Asn Arg His Arg Ser Arg Tyr Asp Met Lys Ala Leu Cys Leu Ser
50      55      60
Cys Pro Glu Leu Gln Asp Phe Ile Val Gln Thr Pro Ala Gly Glu Pro
65      70      75      80
Ser Val Asn Phe Ala Asp Pro Leu Ala Val Lys Thr Leu Asn Lys Ala
85      90      95
Leu Leu Ala His Phe Tyr Gly Val Thr His Trp Asp Ile Pro Asp Gly
100     105     110
Phe Leu Cys Pro Pro Val Pro Gly Arg Ala Asp Tyr Val His His Leu
115     120     125
Ala Asp Leu Leu Ala Asp Asp Asn Gly Gly Val Val Pro Lys Gln Ala
130     135     140
Thr Val Leu Asp Ile Gly Thr Gly Ala Asn Leu Ile Tyr Pro Leu Ile
145     150     155     160
Gly Ala His Glu Tyr Gln Trp Arg Phe Thr Gly Ser Glu Ile Gly Ala
165     170     175
Glu Ala Phe Ala Ser Ala Gln Ala Ile Ile Asn Ala Asn Pro Gly Leu
180     185     190
Ser Arg Ala Val Arg Leu Arg Arg Gln Lys Asp Ala Ala Ala Ile Phe
195     200     205
Asn Gly Ile Ile His Lys Asn Glu Gln Tyr Asp Ala Thr Leu Cys Asn
210     215     220
Pro Pro Phe His Asp Ser Ala Ala Ser Ala Arg Ala Gly Ser Glu Arg
225     230     235     240
Lys Arg Arg Asn Leu Gly Gln Ala Glu Asp Gly Ala Leu Asn Phe Gly
245     250     255
Gly Gln Gln Gln Glu Leu Trp Cys Glu Gly Gly Glu Val Ala Phe Ile
260     265     270
Leu Arg Met Ile Thr Glu Ser Lys Gly Phe Gly Arg Gln Val Lys Trp
275     280     285
Phe Thr Thr Leu Val Ser Arg Gly Asp Asn Leu Pro Pro Leu Tyr Arg
290     295     300
Ala Leu Thr Asp Val Gly Ala Val Lys Val Val Lys Lys Glu Met Ala
305     310     315     320
Gln Gly Gln Lys Gln Ser Arg Phe Ile Ala Trp Ser Phe Met Asp Asp
325     330     335
Asn Lys Arg Arg Lys
340

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<210> 7909
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 7909

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Gly Thr Tyr Leu Ile Ile Arg Arg Pro Gln Ile Glu Thr Pro Ser Pro
1      5      10      15
Gly Thr Arg Asn Thr Gly Arg Glu Leu Thr Thr Pro Thr Ile Lys Glu

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<210> 7910
<211> 245
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7911
<211> 257
<212> PRT
<213> Enterobacter cloacae
```

<400> 7911

Cys	Gln	Arg	Gly	Arg	His	Leu	His	Arg	Asp	Leu	Phe	Val	Ile	Phe	Arg
1				5					10					15	
Pro	Gly	Leu	Leu	Ala	Gly	Ser	Asp	Ser	Ala	Phe	Arg	Arg	Arg	Thr	Met
		20						25					30		
Arg	Val	Asn	Thr	Trp	Ile	Cys	Leu	Ala	Gly	Thr	Leu	Cys	Ser	Ser	Ala
		35					40					45			
Val	Tyr	Ala	Gly	Gly	Val	Gly	Leu	Gly	Ala	Thr	Arg	Leu	Val	Tyr	Ala
	50					55					60				
Gly	Ala	Ala	Thr	Gln	Thr	Met	Met	Gln	Val	Arg	Asn	Thr	His	Pro	Asp
65					70					75					80
Ala	Thr	Phe	Leu	Ile	Gln	Ser	Trp	Met	Glu	Asp	Glu	Lys	Gly	Ser	Arg
			85						90					95	
Thr	Asn	Asp	Phe	Val	Ile	Thr	Pro	Pro	Leu	Tyr	Val	Met	Lys	Pro	Ala
			100					105						110	
Ser	Glu	Ser	Ala	Val	Lys	Ile	Met	Phe	Ser	Gly	Asn	Ala	Leu	Pro	Ser
		115					120					125			
Asp	Arg	Glu	Thr	Leu	Tyr	Trp	Met	Thr	Val	Lys	Ala	Ile	Pro	Gln	Gln
	130					135					140				
Val	Lys	Asn	Gly	Ser	Gly	Asn	Ser	Leu	Gln	Phe	Ala	Ser	Ala	Asn	Arg
145					150					155					160
Ile	Lys	Val	Phe	Tyr	Arg	Pro	Glu	Arg	Leu	Arg	Glu	Gly	Ala	Gly	Glu
			165						170					175	
Ala	Trp	Lys	Asn	Leu	Ala	Gly	Ala	Tyr	Arg	Ala	Gly	Lys	Val	Thr	Leu
			180					185					190		
Thr	Asn	Pro	Thr	Pro	Tyr	Tyr	Leu	Thr	Thr	Ile	Asn	Val	Lys	Ile	Asp
		195					200					205			
Gly	Arg	Pro	Val	Ser	Pro	Val	Met	Val	Pro	Pro	Lys	Ala	Ser	Val	Thr
	210					215					220				
Leu	Ala	Asp	Thr	Phe	Ser	His	Ala	Ser	Ser	Met	Ser	Tyr	Gln	Thr	Ile
225					230					235					240
Asn	Asp	Tyr	Gly	Ala	Trp	Thr	Pro	Val	Thr	Arg	Thr	Ser	Leu	Ser	Gln
				245					250					255	

<210> 7912

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 7912

Gln	Arg	Lys	Asn	Asp	Leu	Leu	Cys	Ala	Thr	Gly	Arg	His	Gly	Cys	Ala
1				5					10					15	
Gly	Gln	Cys	Arg	Arg	Arg	Phe	Gly	Ser	Gly	Asp	Leu	Asp	Asp	Gly	Val
		20						25					30		
Ser	Ile	Met	Arg	Leu	Leu	Phe	Leu	Ala	Leu	Phe	Phe	Met	Ser	Ser	Gln
		35					40					45			
Ala	Leu	Ala	Leu	Ser	Trp	Thr	Ser	Asp	Ile	Thr	Leu	Ser	Pro	Thr	Pro
	50					55					60				
Met	Ser	Trp	Ser	Gly	Pro	Ala	Asp	Ser	Ile	Val	Pro	Gly	Lys	Thr	Ile
65					70					75					80
Gly	Ser	Glu	Trp	Ser	Ala	Ser	Ala	Ser	Val	Ser	Glu	Val	Phe	Trp	Cys
			85						90					95	
Gly	Leu	Val	Phe	Thr	Cys	Ser	Lys	Gly	Thr	Leu	Glu	Pro	Ser	Ser	Ser
		100						105					110		
Ile	Thr	Ala	Thr	Gly	Ile	Thr	Val	Ile	Leu	Asp	Gly	Ala	Asn	Tyr	Met
		115					120					125			
Val	Phe	Glu	Thr	Gly	Val	Pro	Gly	Ile	Gly	Phe	Ile	Leu	Gly	Leu	Lys
	130					135						140			

Asp Tyr Asn Gly Thr Thr Tyr Val Pro Met Gln Thr Gly Ile Thr Gln
 145 150 155 160
 Ser Tyr Pro Ala Asp Gly Thr Asn Gly Tyr Ala Thr Ala Leu Gly Trp
 165 170 175
 Ser Ala Lys Val Thr Phe Ile Lys Thr Gly Val Pro Leu Lys Ser Gly
 180 185 190
 Val Tyr Gln Thr Pro Thr Ile Asn Ser Ala Ile Leu Thr Ala Tyr Asn
 195 200 205
 Asn Glu Val Lys Thr Ala Gln Val Ile Ile Asn Pro Thr Thr Ile Thr
 210 215 220
 Val Thr Ala Ser Gly Cys Thr Val Gly Thr Lys Ser Ala Asn Val Asp
 225 230 235 240
 Leu Gly Thr Ile Asp Val His Thr Leu Pro Ser Val Gly Ser Thr Ser
 245 250 255
 Pro Ser Gly Glu Phe Asn Val Ser Leu Thr Cys Asp Glu Asn Val Ala
 260 265 270
 Val Asn Ala Val Met Thr Asp Gln Thr Thr Pro Ser Asn Thr Ser Ser
 275 280 285
 Val Val Thr Leu Thr Gly Asp Ser Thr Ala Ser Gly Ile Gly Val Gln
 290 295 300
 Phe Phe Tyr Asn Gly Thr Gly Pro Leu Met Met Gly Pro Asp Ser Ser
 305 310 315 320
 Ala Ala Gly Thr Thr Gly Gln Phe Phe Ile Gln Thr Thr Ser Ala Ala
 325 330 335
 Gln Thr Leu Ser Leu Pro Phe Gln Ala Gln Tyr Ile Arg Thr Gly Asp
 340 345 350
 Leu Val Pro Gly Ser Ala Asn Ala Leu Ala Ser Ile Thr Phe Ser Tyr
 355 360 365
 Gln
 370

<210> 7913

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7913

Pro Thr Glu Ala Gln Ser Cys Thr Pro Phe Arg Arg His Pro His Cys
 1 5 10 15
 Arg Leu Phe Phe Ala Pro Ser Val Lys Tyr Cys Asn Ser Val Gln Val
 20 25 30
 Lys Arg Ala Gln Arg Ser Asn Pro Met Ile Lys Asn Leu His Ile Gln
 35 40 45
 Asn Tyr Arg Ser Ile Arg Asp Met Ser Leu Glu Leu Glu Gln Leu Asn
 50 55 60
 Ile Val Phe Gly Pro Asn Gly Thr Gly Lys Ser Asn Ile Tyr Lys Ala
 65 70 75 80
 Ile Tyr Leu Met His Ser Ala Ala Gln Gly Gln Phe Ser Gln Ala Leu
 85 90 95
 Ala Asn Glu Gly Gly Ile Leu Lys Val Phe Trp Ala Gly Lys Thr Arg
 100 105 110
 Ser Asp Gln Leu Arg Arg Met Asn Leu Ala Val Glu Thr Glu Thr Tyr
 115 120 125
 Glu Tyr Glu Leu Gln Val Gly Phe Val Glu Lys Leu Pro Tyr Pro Ser
 130 135 140
 Gln Phe Gln Leu Asp Pro Val Ile Lys Glu Glu Ser Ile Trp Leu Ser
 145 150 155 160
 Gly Gln His Arg Arg Pro Ser Ser Gln Leu Met Lys Arg Lys Asn Gln
 165 170 175
 Ala Val Phe Leu Asn Asn Val His His Glu Lys Val Thr His Ser Gly
 180 185 190

Thr Leu Tyr Glu Asn Glu Ser Val Phe Gly Gln Leu Gly Glu Pro His
 195 200 205
 Leu Tyr Pro Glu Val Ser Gln Met Arg Glu Ser Leu Arg Asn Trp Arg
 210 215 220
 Phe Tyr His Glu Phe Ser Val Ser Ser Gly Ser Ala Ile Arg Ala Pro
 225 230 235 240
 Gln Val Gly Phe Arg Ser Pro Val Leu Ala Ser Asp Gly Ala Asn Leu
 245 250 255
 Ala Ala Ala Phe Gln Thr Ile Val Glu Ile Gly Asp Glu Leu Leu Leu
 260 265 270
 Met Arg Ile Leu Asp Gln Ala Phe Pro Gly Cys Val Phe Tyr Ser Asp
 275 280 285
 Asn Thr Gly Gly Arg Phe Arg Met Met Met Gln Arg Glu Gly Leu Ser
 290 295 300
 Arg Pro Leu Glu Pro Ala Glu Phe Ser Asp Gly Thr Leu Arg Phe Leu
 305 310 315 320
 Cys Leu Ala Val Ala Leu Leu Ser Pro Arg Pro Pro Ala Phe Ile Ala
 325 330 335
 Leu Asn Glu Pro Glu Asn Ser Leu His Pro Gln Met Leu Pro Ala Leu
 340 345 350
 Ala Ser Leu Ile Ala Glu Ala Ser Arg Tyr Ser Gln Ile Trp Leu Thr
 355 360 365
 Ser His Ser Pro Glu Leu Ala His Leu Ile Glu Lys His Arg Ser Phe
 370 375 380
 Ser Leu Tyr Gln Leu Leu Met Ala Glu Gly Glu Thr Arg Met Glu Arg
 385 390 395 400
 Leu Gly

<210> 7914

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 7914

Lys Glu Ile Glu Met Ala Ile Pro Val Tyr Leu Trp Leu Glu Asp Asp
 1 5 10 15
 Ala Gly Arg Lys Ile Asn Gly Ser Val Asp Ile Lys Asp Arg Glu Gly
 20 25 30
 Ser Ile Glu Val Ile Glu Phe Met His Ser Ile Glu Gln Ser Ile Glu
 35 40 45
 Lys Phe Ser Gly Lys Ile Thr Ser Lys Arg Ile Cys Ser Thr Tyr Ala
 50 55 60
 Phe Met Lys Glu Ile Asp Ser Ser Ser Ser Tyr Leu Tyr Lys Ala Leu
 65 70 75 80
 Ser Thr Gly Gln Thr Leu Thr Arg Ala Glu Phe Ile Phe Tyr Arg Ile
 85 90 95
 Asn Tyr Asn Gly Leu Glu Glu Ala Tyr Phe Lys Thr Thr Leu Glu Asn
 100 105 110
 Ala Arg Val Val Gln Ile Glu Pro Leu Met Phe Asp Ile Lys Leu Pro
 115 120 125
 Gln Asn Glu Arg Tyr Thr His Cys Glu Tyr Val Asp Leu Thr Tyr Glu
 130 135 140
 Lys Ile Thr Trp His Tyr Ile Asp Gly Asn Ile Ile His Ser Asp Thr
 145 150 155 160
 Trp Lys Glu Arg Ala
 165

<210> 7915

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7915

Pro Val Arg Pro Ala Ala Phe Arg Ala Asn Leu Val Ile Lys Lys Pro
 1 5 10 15
 Arg Asn Tyr Glu Met Lys Ala Arg Leu Thr Cys His Ser Leu Leu Ala
 20 25 30
 Leu Ser Ile Ala Ala Leu Leu Pro Ala Gly Ser Ala Leu Ala Ala Thr
 35 40 45
 Thr Ser Gly Gly Thr Val Asn Phe Ser Gly Lys Val Val Thr Ser Ala
 50 55 60
 Cys Ala Ile Ser Ala Gly Ser Ala Asn Ile Asp Val Asp Met Gly Glu
 65 70 75 80
 Val Arg Thr Ala Thr Leu Ala Ala Ala Gly Ser Glu Ala Ser Thr Ala
 85 90 95
 Lys Ala Phe Ser Ile Thr Leu Glu Asp Cys Glu Ile Ala Asp Thr Ser
 100 105 110
 Ala Ser Thr Glu Asn Asn Pro Ile Ala Ala Thr Thr Val Ala Ile Thr
 115 120 125
 Phe Thr Gly Thr Pro Asp Ser Thr Asp Val Asn Ser Leu Ala Ala Gly
 130 135 140
 Val Asn Gly Gly Ala Gly Ser Ala Gln His Val Ala Ile Arg Leu Tyr
 145 150 155 160
 Asp Glu Gln Gly Asn Val Val Arg Leu Gly Glu Pro Ala Ala Ala Ile
 165 170 175
 Pro Leu Arg Ala Gly Ala Asn Thr Leu Asn Phe Ser Ala Lys Tyr Tyr
 180 185 190
 Ser Pro Leu Gly Asn Ala Thr Ala Gly Asp Ala Ser Ala Val Ala Thr
 195 200 205
 Tyr Thr Val Thr Tyr Ser
 210 215

<210> 7916

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 7916

Gln Ser Gln Arg Tyr Arg Arg Arg Arg Arg Gln Arg Val Ser Asp Arg
 1 5 10 15
 Pro Val Ser Ala Gly Asn Leu Ala Cys Arg Met Gly Thr Arg Gln Arg
 20 25 30
 Pro Ala Leu His Asp Pro Leu Cys Val Glu Pro Ala Glu Leu Ser Arg
 35 40 45
 Pro His Arg Ala Leu Phe Pro Gly Gly His Met Ser Val Thr Val Arg
 50 55 60
 Phe Leu Pro Leu Ile Leu Leu Met Val Ile Thr Val Pro Ala Arg Gly
 65 70 75 80
 Tyr Asp Val Leu Val Ser Val Thr Gly Asn Val Ile Gly Asn Thr Cys
 85 90 95
 Ile Val Ser Glu Asp Ser Lys Glu Gln Asn Val Pro Leu Gly Thr Leu
 100 105 110
 Gly Val Lys Gln Phe Ser Glu Ala Gly Ala Val Ser Asn Ile Lys Thr
 115 120 125
 Pro Phe Thr Leu Thr Leu Glu Ala Cys Gly Pro Thr Phe Ala Gly Val
 130 135 140
 Lys Ile Arg Phe Ser Gly Thr Pro Asp Asp Glu Asn Pro Gln Leu Leu
 145 150 155 160
 Lys Val Ala Asp Gly Gly Ala Thr Gly Val Ala Val Gln Ile Leu Asp
 165 170 175
 Lys Asp Ser Val Leu Ile Pro Leu Asp Thr Gln Thr Ala Ala Tyr Gly

```
<210> 7917
<211> 251
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7918
<211> 158
<212> PRT
<213> Enterobacter cloacae
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<400> 7918															
Ile	Phe	Phe	Arg	Ala	Ala	Ser	Ala	Asn	Val	Phe	Leu	Ser	Pro	Thr	Thr
1				5					10					15	
Gln	Gln	Glu	Asn	Thr	Met	Lys	Lys	Thr	Leu	Pro	Leu	Met	Met	Leu	Ala
			20					25					30		
Ala	Met	Ala	Phe	Ala	Pro	Ala	Ala	Phe	Ser	Ala	Pro	Ala	Gly	Thr	Leu
		35					40					45			
Ser	Val	His	Val	Leu	Asp	Gln	Gln	Thr	Gly	Met	Pro	Pro	Ala	Asp	Val
	50					55					60				

Thr	Val	Thr	Leu	Glu	Lys	Gln	Glu	Gln	Asp	Lys	Trp	Thr	Pro	Ile	Ala
65					70					75					80
Ser	Gly	Lys	Thr	Asp	His	Asp	Gly	Arg	Ile	Lys	Ser	Leu	Tyr	Pro	Gln
				85					90					95	
Asp	Gln	Asp	Met	Ala	Pro	Gly	Val	Tyr	Lys	Val	Thr	Phe	Lys	Thr	Ala
			100					105					110		
Asp	Tyr	Phe	His	Gly	Lys	Lys	Leu	Asp	Ser	Phe	Phe	Pro	Glu	Val	Pro
		115					120					125			
Val	Leu	Phe	Thr	Val	Thr	Arg	Thr	Asn	Glu	Lys	Leu	His	Ile	Pro	Leu
	130					135					140				
Leu	Leu	Ser	Gln	Tyr	Gly	Tyr	Ser	Thr	Tyr	Lys	Gly	Ser			
145					150					155					

<210> 7919

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 7919

Asp	Arg	Glu	Val	His	Thr	Met	Thr	Thr	Lys	Pro	Val	Leu	Gly	Ile	Ser
1				5					10					15	
Gly	Cys	Leu	Thr	Gly	Ser	Ala	Val	Arg	Phe	Asp	Gly	Gly	His	Lys	Arg
			20					25					30		
Met	Gly	Phe	Val	Met	Asp	Glu	Leu	Ala	Gln	Trp	Val	Ala	Phe	Arg	Pro
		35					40					45			
Val	Cys	Pro	Glu	Met	Ser	Ile	Gly	Leu	Pro	Thr	Pro	Arg	Pro	Ala	Leu
	50					55					60				
Arg	Leu	Val	Met	Thr	Thr	Gly	Gly	Glu	Thr	Glu	Met	Arg	Phe	Ser	Lys
65				70					75					80	
Ala	Pro	His	Asp	Asp	Val	Thr	Gln	Lys	Met	Ala	Ala	Phe	Thr	Ala	Asp
			85					90						95	
Tyr	Leu	Pro	Lys	Ile	Gly	Asp	Leu	Ser	Gly	Phe	Ile	Val	Cys	Ala	Lys
			100				105						110		
Ser	Pro	Ser	Cys	Gly	Met	Glu	Arg	Val	Arg	Leu	Tyr	Asp	Glu	Asn	Gly
		115				120						125			
Asn	Arg	Gly	Arg	Lys	Glu	Gly	Val	Gly	Leu	Phe	Thr	Ala	Ala	Leu	Leu
	130				135						140				
Glu	Thr	Phe	Pro	Trp	Leu	Pro	Val	Glu	Glu	Asp	Gly	Arg	Leu	His	Asp
145					150					155					160
Pro	Val	Leu	Arg	Glu	Asn	Phe	Val	Glu	Arg	Val	Phe	Ala	Leu	His	Glu
			165					170						175	
Leu	Asn	Val	Met	Arg	Lys	Asn	Gly	Leu	Thr	Arg	Arg	Ala	Leu	Leu	Asp
		180					185						190		
Phe	His	Ser	Arg	Tyr	Lys	Leu	Gln	Leu	Leu	Ala	His	His	Gln	Ala	Gly
	195					200						205			
Tyr	Arg	Glu	Ile	Gly	Pro	Phe	Val	Ala	Ser	Leu	His	Glu	Trp	Asp	Asp
	210				215						220				
Leu	Asp	Ala	Phe	Phe	Val	Ala	Tyr	Arg	Asp	Lys	Leu	Met	Thr	Ile	Leu
225				230						235					240
Lys	Lys	Pro	Ala	Ser	Arg	Lys	Asn	His	Thr	Asn	Val	Leu	Met	His	Ile
			245					250						255	
Gln	Gly	Tyr	Phe	Arg	Asn	Gln	Leu	Asn	Ser	Arg	Gln	Arg	Gly	Glu	Leu
		260					265						270		
Arg	Asp	Val	Ile	Leu	His	Tyr	Arg	Asp	Gly	Leu	Leu	Pro	Ile	Leu	Ala
	275					280						285			
Pro	Leu	Thr	Leu	Leu	Lys	His	Tyr	Leu	Ala	Glu	Tyr	Pro	Asp	Arg	Tyr
	290				295						300				
Leu	Met	Thr	Gln	Asn	Tyr	Phe	Asp	Pro	Tyr	Pro	Asp	Asp	Leu	Gly	Leu
305					310					315					320
Arg	Leu	Ala	Val	Thr											
				325											

<210> 7920
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 7920

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Pro Pro Pro Val Pro Ser Ala Pro Val Ala Pro Ile Ser Thr Ser Thr
1      5      10      15
Trp Gly Lys Cys Val Pro Pro Arg Trp Leu Pro Gln Ala Val Lys Pro
20
Val Pro Gln Lys Pro Ser Pro Ser Arg Trp Arg Ile Ala Lys Ser Pro
35
Ile Pro Pro Arg Pro Arg Lys Ile Thr Pro Ser Pro Gln Arg Pro Trp
50      55      60
Leu Ser Pro Ser Pro Val Arg Arg Thr Val Pro Met Ser Ile Ala Trp
65      70      75      80
Pro Arg Glu

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<210> 7921
 <211> 866
 <212> PRT
 <213> Enterobacter cloacae

<400> 7921

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Arg Leu Trp Gly Leu Asp Ala Arg His Pro His Val Ile Val Pro Ile
1      5      10      15
Ile Lys Thr Val Arg Arg Asp His Met Lys Ile Lys Ile Leu Cys Ala
20
Thr Ala Ile Ala Leu Val Ile Arg Gln Ala Val Ala Ala Glu Ser Glu
35
Leu Gln Phe Asn Pro Ala Phe Leu Asn Gly Glu Arg Ala Asn Ser Ala
50      55      60
Asp Leu Ala Trp Val Asn Ala Gly Ser Ala Leu Pro Pro Gly Glu Tyr
65      70      75      80
Asn Leu Asn Val Tyr Ile Asn Thr Gln Phe Ala Phe Thr Gly Asn Val
85      90      95
Thr Phe Arg Val Ala Glu Ser Thr Ala Gly Glu Ala Leu Pro Cys Leu
100      105      110
Thr Pro Ala Gln Phe Ala Ala Leu Gly Ile Asp Ser Arg Gln Ala Lys
115      120      125
Gly Gly Glu Leu Pro Pro Ala Gln Arg Cys Ile Phe Leu Thr Gln Ser
130      135      140
Phe Ala Asp Thr Arg Phe Asp Phe Asp Gln Arg Thr Leu Thr Leu Asn
145      150      155      160
Phe Thr Val Pro Gln Ser Ala Met Arg Ala Leu Pro Arg Gly Tyr Val
165      170      175
Ser Pro Glu Ser Trp Glu Ser Gly Ile Pro Ala Ala Trp Leu Asn Tyr
180      185      190
Val Val Asn Gly Ala Asn Asn Asp Tyr Arg Gly Glu Thr Arg Thr Arg
195      200      205
Glu Gln Gln Leu Phe Val Ser Leu Asn Ser Gly Ala Asn Leu Gly Ala
210      215      220
Trp Arg Leu Arg Asp Phe Thr Thr Trp Thr Lys Glu Ser Asn Glu Leu
225      230      235      240
Thr His Val Gln Thr Trp Leu Gln Arg Asp Ile Arg Ala Leu Arg Ala
245      250      255
Gln Val Tyr Ala Gly Glu Thr Phe Thr Ser Ser Gln Val Phe Asp Ala
260      265      270
Val Gly Leu Arg Gly Ile Ala Leu Lys Thr Asp Asp Asn Met Leu Pro

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		275					280					285				
Ala	Ser	Leu	Ser	Gly	Tyr	Ala	Pro	Glu	Val	Arg	Gly	Ile	Ala	Arg	Ser	
	290					295					300					
Asn	Ala	Thr	Val	Thr	Val	Arg	Gln	Asn	Gly	Asn	Val	Ile	Tyr	Gln	Thr	
305					310					315					320	
Ser	Val	Pro	Pro	Gly	Ala	Phe	Val	Leu	Lys	Asp	Leu	Tyr	Pro	Thr	Ser	
				325					330					335		
Ser	Gly	Gly	Asp	Leu	Ala	Val	Thr	Ile	Gln	Glu	Ser	Asp	Gly	Ser	Gln	
			340					345					350			
Thr	Gln	Tyr	Thr	Leu	Pro	Phe	Ala	Ser	Val	Pro	Asn	Leu	Val	Arg	Asn	
		355					360					365				
Gly	Gln	Val	Lys	Tyr	Ala	Leu	Gly	Ala	Gly	Lys	Tyr	Arg	Pro	Ala	Gly	
	370					375					380					
Asn	Gln	Ile	Ser	Pro	Ser	Phe	Ala	Gln	Gly	Glu	Leu	Phe	Leu	Gly	Trp	
385					390					395					400	
Arg	Tyr	Gly	Leu	Thr	Phe	Tyr	Gly	Gly	Ala	Gln	Phe	Ser	Asp	Arg	Tyr	
				405					410					415		
Thr	Gly	Leu	Ala	Phe	Gly	Ile	Gly	Gln	Asn	Leu	Gly	Arg	Phe	Gly	Ala	
			420					425					430			
Tyr	Ser	Leu	Asp	Leu	Thr	His	Ala	Arg	Ser	Gln	Leu	Ala	Asp	Asn	Gln	
		435					440					445				
His	Tyr	Thr	Gly	Asp	Ser	Val	Arg	Leu	Arg	Tyr	Ser	Lys	Leu	Leu	Asn	
	450					455					460					
Asp	Ile	Gly	Thr	Arg	Val	Asn	Phe	Phe	Ser	Leu	Arg	Tyr	Ser	Thr	Ala	
465					470					475					480	
Gly	Phe	Tyr	Thr	Leu	Ser	Asp	Thr	Thr	Tyr	Lys	Gly	Met	Ala	Gly	Gly	
				485					490					495		
Ala	Pro	Glu	Gln	Thr	Val	Glu	Asp	Asp	Gly	Thr	Val	Thr	Thr	His	Tyr	
			500					505					510			
Asp	Thr	Val	Tyr	Asn	Leu	His	Met	Ser	Arg	Lys	Ala	Lys	Asn	Gln	Leu	
		515					520					525				
Leu	Leu	Ser	Gln	Pro	Met	Gly	Glu	Tyr	Gly	Ala	Leu	Ser	Leu	Ser	Trp	
	530					535					540					
Asp	Gln	Gln	Thr	Tyr	Trp	Asn	Thr	Ser	Lys	Thr	Gln	Ser	Leu	Gln		
545					550					555					560	
Phe	Ala	Trp	Asn	Ala	Thr	Phe	Arg	Asn	Leu	Ser	Leu	Gly	Ile	Ser	Ala	
				565					570					575		
Gln	Arg	Ser	Ser	Gly	Leu	Tyr	Asp	Asn	Lys	Lys	Asp	Asn	Ile	Leu	Ala	
			580					585					590			
Leu	Ser	Leu	Ser	Val	Pro	Leu	Gly	Asn	Pro	Ala	Leu	Ser	Thr	Arg	Leu	
		595					600					605				
Arg	Phe	Thr	Ala	Thr	His	Ala	Asp	Pro	Ala	Gly	Thr	Thr	Ala	Ser	Thr	
	610					615					620					
Gly	Val	Ser	Gly	Tyr	Leu	Pro	Gly	Gln	Glu	Asn	Leu	Phe	Tyr	Ser	Val	
625					630	</										

Ala Leu Val Arg Ala Thr Leu Thr Thr Arg Gln Gly Ala Lys Ala Met
 770 775 780
 Phe Ile Val Arg His Ala Lys Asp Val Leu Pro Phe Gly Thr Leu Val
 785 790 795 800
 Ser Ser Glu Asp Asp Lys Ala Ser Gly Ile Val Gly Asp Gly Gly Ser
 805 810 815
 Val Tyr Leu Thr Gly Leu Ser Ala Gln Gly Thr Leu His Ala Val Trp
 820 825 830
 Gly Arg Asp Ser Ala Gln Arg Cys Thr Ile Arg Tyr Ala Leu Asn Pro
 835 840 845
 Gln Asn Tyr His Ala Arg Thr Gly Leu Tyr Ser Gln Glu Ala Ile Cys
 850 855 860
 Gln
 865

<210> 7922

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 7922

Pro Met Asn Ile Thr Gln Ile Arg Asn Ala Thr Gln Leu Ile Thr Tyr
 1 5 10 15
 Ala Gly Lys Arg Phe Leu Ile Asp Pro Met Leu Ala Pro Lys Gly Thr
 20 25 30
 Tyr Pro Gly Phe Pro Gly Thr Ala Arg Ala Asp Ile Arg Asn Pro Met
 35 40 45
 Val Glu Leu Pro Val Asp Val Gln Thr Leu Leu Asp Ala Asp Ala Val
 50 55 60
 Ile Val Thr His Thr His Ala Asp His Trp Asp Gln Tyr Ala Val Glu
 65 70 75 80
 Leu Ile Ala Lys Gly Lys Pro Ile Tyr Val Gln Asn Asp Ser Asp Ala
 85 90 95
 Ala Leu Leu Arg Ser Gln Gly Phe Thr Asn Leu Thr Ile Met Thr Gly
 100 105 110
 Glu Thr Thr Tyr Gly Asp Ile Arg Ile Val Lys Thr His Gly Gly Gln
 115 120 125
 His Gly Thr Asp Arg Ala Tyr Ala Val Pro Glu Leu Ala Glu Phe Leu
 130 135 140
 Gly Glu Ala Cys Gly Val Val Phe Arg His Pro Asp Glu Lys Thr Leu
 145 150 155 160
 Tyr Ile Ala Gly Asp Thr Ile Trp Arg Asp Ala Val Ala Ala Asp Leu
 165 170 175
 Gln Lys His Gln Pro Asp Ile Val Val Leu Asn Ala Gly Tyr Ala His
 180 185 190
 Val Ile Gly Phe Gly Pro Ile Ile Met Gly Glu Glu Asp Leu Leu Asn
 195 200 205
 Val His Phe Leu Leu Pro Gln Ala Lys Ile Val Ala Thr His Met Glu
 210 215 220
 Ala Ile Asn His Cys Leu Leu Thr Arg Arg Ala Leu Arg Glu Tyr Val
 225 230 235 240
 Asp Ala Asn Glu Ile Ser Asp Ala Val Ser Ile Pro Gln Asp Gly Glu
 245 250 255
 Thr Val Ile Phe
 260

<210> 7923

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7923

Lys Arg Arg Phe Gly Tyr Gly Met Gly Asp Ala Ala Ser His Ile Ile
 1 5 10 15
 Phe Asp Asn Val Met Leu Tyr Met Met Phe Phe Tyr Thr Asp Ile Phe
 20 25 30
 Gly Ile Pro Ala Gly Phe Val Gly Thr Met Phe Leu Leu Ala Arg Ala
 35 40 45
 Leu Asp Ala Ile Ser Asp Pro Cys Met Gly Leu Ile Ala Asp Arg Thr
 50 55 60
 Arg Ser Arg Trp Gly Gln Val Pro Ser Met Asp Phe Val Trp Arg Tyr
 65 70 75 80
 Pro Val Arg His Arg Leu Arg Ala Gly Val Tyr His Ala Gly Pro Glu
 85 90 95
 Pro Gln Arg Gln Asn Gly Leu Arg Arg Arg Tyr Leu His Pro Ala Asp
 100 105 110
 Pro Ala Leu Tyr Arg Gly Gln His Pro Val Leu Arg Ala Gly Arg Arg
 115 120 125
 Asp His Gln Arg Pro Asp Ala Ala Tyr Leu Pro Pro Val Leu Ala Leu
 130 135 140
 Cys Ala Gly Asp Gly Gly Arg Tyr Ala Leu Tyr Gly Ala Asp Asp Ala
 145 150 155 160
 Ala Gly Glu Pro Asp Trp Arg
 165

<210> 7924

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 7924

His Ile Val Lys Leu Lys Asn Arg Ser Gly Gln Arg Arg Ala Leu Ile
 1 5 10 15
 Pro His His Phe Ser Lys Ser Tyr His Ile Asn Ala Pro Arg Leu Lys
 20 25 30
 Ala Val Leu Thr Leu Phe Ile Ala Phe Phe Leu Cys Leu Leu Val Phe
 35 40 45
 Ala Ile Val Phe Asn Phe Ser Glu Thr Thr Leu Ala Arg Gly Val Leu
 50 55 60
 Ile Pro Ala Gln Gly Asp Val Glu Val Arg Ala Arg Glu Ser Gly Thr
 65 70 75 80
 Leu Val Asp Phe Ala Val Arg Pro Gly Gln Tyr Val Lys Glu Asn Asp
 85 90 95
 Pro Leu Phe Thr Val Ser Gln Asp Tyr Gly Gly Lys Gln Gly Ser Val
 100 105 110
 Val Gln Phe Asp Arg Gln Gln Met Glu Ala Glu Lys Lys Arg Ser Glu
 115 120 125
 Gln Arg Ile Gln Ala Ile Glu Asp Ser Ile Ala Ser Tyr Arg Lys Asn
 130 135 140
 Leu Ala Gln Gln Leu Ala Leu Thr Asp Lys Gln Ile Ala Val Ser Arg
 145 150 155 160
 Asp Lys Val Lys Lys Leu Arg Ala Leu Leu Lys Asn Ser Thr Asp Thr
 165 170 175
 Tyr Glu Ala Trp Lys Ser Val Ser Gly Lys Gly Tyr Val Ser Arg Val
 180 185 190
 Asp Leu Asp Lys Ser His Asn Asp Val Leu Asn Ala Gln Leu Asn Leu
 195 200 205
 Thr Leu Glu Glu Ser Thr Ile Leu Glu Leu Glu Ala Arg Lys Thr Ser
 210 215 220
 Leu Thr Asp Ser Thr Gln Ser Gln Ile Asp Ser Leu Ser Glu Glu Gln
 225 230 235 240
 Leu Tyr Val Lys Asn Arg Ile Ser Glu Ile Asp Arg Asn Leu Ser Ser

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<210> 7925
<211> 335
<212> PRT
<213> Enterobacter cloacae
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<400> 7925															
Arg 1	Gly	Lys	Glu	Arg 5	Gln	Met	Pro	Leu	Val 10	Asn	Val	Ala	Ile	Val 15	Ala
Val	Asp	Gly	Phe 20	Ser	Pro	Phe	His	Tyr 25	Ser	Val	Pro	Cys	Ile 30	Leu	Phe
Gly	Asp	Thr 35	Val	Ser	Gly	Glu	Lys 40	Arg	Phe	Asn	Val	Thr 45	Ile	Cys	Ala
Glu	Lys 50	Pro	Gly	Phe	Leu	Thr 55	Ser	Lys	Asp	Gly	Phe 60	Ala	Leu	His	Ala
Thr 65	Gln	Asp	Phe	Ser	Ala 70	Ile	Ala	Ser	Ala	Glu 75	Ile	Val	Val	Val 80	Pro
Tyr	Trp	Gln	His	Val 85	Leu	Glu	Arg	Pro	Pro 90	Gln	Thr	Leu	Leu	Asp 95	Ser
Leu	Val	Gln	Ala 100	Arg	Asp	Asn	Gly	Ala 105	Glu	Ile	Val	Gly	Leu 110	Cys	Leu
Gly	Ser	Phe 115	Val	Leu	Gly	Tyr	Ala 120	Gly	Ile	Leu	Ser	Gly 125	Lys	Arg	Ala
Ala	Thr 130	His	Trp	Glu	Phe	Glu	His 135	Gln	Phe	Gln	Thr 140	Leu	Phe	Pro	Asp
Val 145	Arg	Leu	Asp	Ile	Asn 150	Ala	Leu	Tyr	Val	Asp 155	Asp	Gly	Asn	Val 160	Ile
Thr	Ser	Ala	Gly	Thr 165	Ala	Ala	Ala	Leu	Asp 170	Cys	Cys	Leu	Tyr	Ile 175	Ile
Arg	Gln	Arg	Phe 180	Gly	Ser	Val	Val 185	Ala	Asn	Gln	Ile	Ala	Arg 190	Arg	Met
Ile	Val	Pro 195	Pro	His	Arg	Glu	Gly 200	Gly	Gln	Ala	Gln	Phe 205	Ile	Ala	Gln
Pro	Val 210	Pro	Lys	Asp	Thr	Arg 215	Asp	Gly	Arg	Ile	Asn 220	Cys	Leu	Ile	Asp
Tyr 225	Leu	Gln	Gln	His	Ile 230	Ser	Glu	Pro	His	Asn 235	Leu	Asp	Ser	Leu	Ala
Asp	Val	Val	Ser	Met	Ser	Arg	Arg	Thr	Leu	Thr	Arg	His	Phe	Ile	Lys

				245					250				255				
Ala	Thr	Gly	Met	Ser	Val	Ala	Asp	Trp	Leu	Thr	Ala	Glu	Arg	Leu	Arg		
			260					265					270				
Arg	Ser	Gln	Ile	Leu	Leu	Glu	Ser	Gly	Ser	Leu	Pro	Ile	Glu	Ser	Val		
		275					280					285					
Ala	Glu	Gln	Val	Gly	Phe	Leu	Ser	Ala	Val	Thr	Tyr	Arg	Gln	Gln	Phe		
	290					295				300							
Lys	Ala	Arg	Phe	Gly	Val	Ser	Pro	Ala	Glu	Trp	Arg	Lys	Thr	Phe	Arg		
305				310					315					320			
Val	Lys	Pro	Tyr	Ala	Ala	Lys	Asn	Asn	Ala	Gly	Ala	Met	Glu				
				325					330				335				

<210> 7926

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 7926

Met	Ser	Ser	His	Thr	Cys	Gly	Asp	Pro	Gly	Ser	Thr	Ser	Val	Asn	Arg		
1			5						10					15			
Arg	Ile	His	Thr	Ala	Pro	Met	His	Lys	His	Tyr	Ile	Ile	Asn	Asn	Ile		
		20					25						30				
Val	Glu	Phe	His	Pro	Ala	Ala	Ser	Thr	Leu	Arg	Asp	Ile	Asn	Asn	Pro		
	35					40					45						
Asp	Arg	Val	Val	Val	Leu	Asn	Ser	Pro	Ala	Gly	Arg	Cys	Leu	Leu	Leu		
	50				55					60							
Leu	Ile	Asp	Arg	Ala	Gly	Ser	Ile	Val	Thr	Gln	Gln	Glu	Phe	Leu	Asp		
65				70					75					80			
Ile	Val	Trp	Gln	Ser	His	Gly	Met	Leu	Val	Ser	Ser	Asn	Thr	Tyr	Tyr		
			85					90					95				
Gln	Asn	Ile	Ser	Ile	Leu	Arg	Lys	Gly	Leu	Lys	Lys	Ile	Gly	Phe	Glu		
	100						105						110				
Thr	Asp	Pro	Ile	Val	Thr	Ile	Pro	Arg	Ile	Gly	Leu	Thr	Leu	Ala	Ser		
	115					120						125					
Asp	Thr	Gln	Ile	Thr	Val	Arg	Glu	Ser	Ser	Pro	Val	Ala	Pro	Gln	Pro		
	130				135					140							
Ala	Glu	Glu	Gln	Cys	Val	Glu	Ala	Pro	Ala	Ile	Glu	Glu	Val	Ser	Ala		
145				150					155						160		
Ser	Ser	Ala	Pro	Ala	Thr	Pro	Val	Ala	Arg	Lys	Pro	Thr	Arg	Trp	Leu		
			165					170						175			
Ala	Val	Val	Met	Gly	Leu	Leu	Ile	Val	Leu	Ala	Gly	Ala	Gly	Val	Thr		
	180						185						190				
Gly	Tyr	Met	Asn	Ala	Thr	Glu	Asn	Arg	Phe	Val	Glu	Asp	Tyr	Arg	Phe		
	195					200						205					
Ala	Ala	Ser	Val	Gly	Ala	Cys	Arg	Val	Tyr	Leu	Ala	Asn	Asp	Ile	Gln		
	210				215						220						
Thr	His	Ala	Glu	Arg	Ala	Ser	Ala	Leu	Thr	Tyr	Val	Glu	Gln	Phe	Lys		
225				230						235					240		
Ala	Glu	Cys	Ala	Gln	Tyr	Pro	Trp	Val	Tyr	Ile	Ser	Trp	Tyr	Ala	Leu		
			245					250						255			
Leu	Pro	Arg	Ala	Ser	Val	Ile	Arg	Cys	Asp	Arg	Pro	Met	Lys	Glu	Pro		
			260				265						270				
Asn	Arg	Cys	Ile	Ser	Asp	Tyr	Phe	Leu	Lys	Asp	Ser						
		275					280				285						

<210> 7927

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7927

Met Lys Ser Val Phe Asp Ser Ser Asp Gly Gly Lys Ser Val Pro Glu
 1 5 10 15
 Lys Cys Leu His Ile Gly Leu Ile Leu Trp Pro Arg Tyr Ser Leu Leu
 20 25 30
 Ala Val Ser Gly Leu Leu Glu Ala Leu Arg Tyr Ala Ala Lys Ala Gln
 35 40 45
 Asp Lys Leu Ala Phe Lys Ile Ser Leu Ile Ser Glu Phe Pro Asp Ile
 50 55 60
 Pro Ile Ile Ser Asn Ala Gly Ile Ile Met Arg Pro Asp Ser Thr His
 65 70 75 80
 Ala Pro Pro Asp Ser Phe Asn Tyr Leu Ala Val Ile Gly Gly Glu Leu
 85 90 95
 Gln Tyr Leu Asp Leu Gly Tyr Gln Gly Asp Lys Ala Tyr Leu Ala His
 100 105 110
 Ala His His Ala Gly Val Pro Leu Ile Gly Ile Gly Thr Gly Ser Phe
 115 120 125
 Val Leu Ala Gln Glu Gly Leu Leu Asn Glu Arg Arg Ala Ser Ile His
 130 135 140
 Pro Phe His Leu Asp Ala Phe Arg Gln Ala Phe Pro Leu Val Tyr Ala
 145 150 155 160
 Glu Gln Gly Tyr Asp Phe Ile Asp Asp Gly Asp Val Leu Thr Cys Pro
 165 170 175
 Gly Gly Ile Ser Thr Leu Thr Leu Ala Thr Glu Leu Ile Arg Ala His
 180 185 190
 Ala Gly Asp Asp Ile Ala Ser Thr Thr Cys Gln Arg Leu Ser Leu Val
 195 200 205
 Pro His Glu Ile Ala Thr Pro Arg Pro Ala Asn Leu Ala Leu Ile Pro
 210 215 220
 Asp Ser Arg Leu Arg Arg Ala Val Met Leu Ile Glu Gln Phe Leu Thr
 225 230 235 240
 Arg Pro Leu Thr Thr Ala Gly Leu Ala Arg Glu Val Ala Leu Ser Glu
 245 250 255
 Arg Gln Leu Asn Arg Leu Phe His Ala Glu Phe Gly Lys Thr Ala Arg
 260 265 270
 Glu Phe Ile Arg Ser Ala Arg Leu Arg Tyr Ala Cys Trp Leu Leu Lys
 275 280 285
 Asn Ser Gln Gln Ser Val Thr Asp Ile Ala Gln Arg Met Gly Phe Ser
 290 295 300
 Asp Cys Ala His Phe Ile Arg His Phe Gln Thr Glu Tyr Gly Cys Thr
 305 310 315 320
 Pro Gly Val Trp Arg Thr Ser Gln Ser
 325 330

<210> 7928

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 7928

Ile Ser Leu His Cys Cys Pro Glu Thr Leu Leu Asn Arg Asn Ile Thr
 1 5 10 15
 Met Lys Ile Glu Ala Ala His Pro Ser Gln Phe Glu Arg Leu Val Ala
 20 25 30
 Val Trp Glu Ser Ser Val Arg Ala Thr His Arg Phe Leu Gln Glu Ser
 35 40 45
 Asp Ile Ala Ala Leu Arg Pro Leu Leu Leu Asn Ala Tyr Leu Pro Asn
 50 55 60
 Leu Arg Val Val Ile Ala Arg Asp Asp Val Gly Ile Ile His Gly Phe
 65 70 75 80
 Leu Gly Val Asp Lys Asn Arg Ile Glu Met Leu Phe Val Asp Asp Ala
 85 90 95

Ser Arg Gly Lys Gly Ile Gly Lys Met Leu Leu Gln Tyr Ala Ile Ala
 100 105 110
 Glu Phe Gly Val Asn Glu Val Asp Val Asn Glu Gln Asn Pro Gln Gly
 115 120 125
 Val Ala Phe Tyr Arg His Met Gly Phe Glu Gln Val Gly Arg Ser Glu
 130 135 140
 Leu Asp Gly Gln Gly Asn Pro Phe Pro Leu Leu His Met Arg Leu Ser
 145 150 155 160
 Gly Gln Ala

<210> 7929

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 7929

Leu Pro Thr Ala Pro Ala Ala Ala Gly Gly Lys Phe Arg Pro Trp Ile
 1 5 10 15
 Leu Phe Gly Ala Ile Pro Phe Gly Ile Val Cys Val Leu Ala Tyr Thr
 20 25 30
 Thr Pro Asp Leu Ser Leu Asn Gly Lys Met Val Tyr Ala Ala Val Thr
 35 40 45
 Tyr Thr Leu Leu Thr Leu Leu Tyr Thr Val Val Asn Ile Pro Tyr Cys
 50 55 60
 Ala Leu Gly Gly Val Ile Thr Asn Asp Pro Thr Gln Arg Ile Ser Leu
 65 70 75 80
 Gln Ser Trp Arg Phe Val Leu Ala Thr Ala Gly Gly Met Leu Ser Thr
 85 90 95
 Val Leu Met Met Pro Leu Val Asn Leu Ile Gly Gly Asp Asp Lys Ala
 100 105 110
 Phe Gly Phe Gln Gly Gly Ile Ala Val Leu Ser Val Val Ala Phe Leu
 115 120 125
 Met Leu Ala Phe Cys Phe Phe Thr Thr Lys Glu Arg Ile Gln Val Pro
 130 135 140
 Pro Ser Thr Thr Ser Met Arg Glu Asp Met Arg Asp Ile Trp Gln Asn
 145 150 155 160
 Asp Gln Trp Arg Ile Val Gly Val Leu Thr Ile Leu Asn Ile Leu Ala
 165 170 175
 Val Cys Val Arg Gly Gly Ala Met Met Tyr Tyr Cys Thr Trp Ile Met
 180 185 190
 Gly Ser Pro Glu Val Phe Val Ala Phe Leu Thr Thr Tyr Cys Val Gly
 195 200 205
 Asn Leu Ile Gly Ser Ala Leu Ala Lys Pro Leu Thr Asp Trp Lys Cys
 210 215 220
 Lys Val Ser Ile Phe Trp Trp Thr Asn Ala Ala Leu Ala Val Val Ser
 225 230 235 240
 Val Ala Met Phe Phe Val Pro Met His Ala Thr Val Leu Met Phe Gly
 245 250 255
 Phe Ile Phe Arg Tyr Arg Arg Ala Ala Pro Ala Gly Asp Ala Asp Ser
 260 265 270
 Val Gly Asn Asp Val Arg Tyr Arg Arg Ile Arg Arg Met Asp Gln Arg
 275 280 285
 Gln Thr Pro Asp Arg His Gln Leu Cys Gly His Ala Val Arg Ala Glu
 290 295 300
 Ala Arg Pro Gly Ala Gly Arg Gly Asp Asp Arg Leu Asp Ala Gly Arg
 305 310 315 320
 Arg Arg Leu Arg Arg Gly Gly Gln Asn Pro Glu Gln Arg Asp His Gln
 325 330 335
 Tyr His Tyr Arg Ser Val Tyr Ala Gly Ala Ser Asp Leu Leu Arg Ala
 340 345 350

Glu Arg His His Arg Gln Thr Leu Leu His Ala Glu Asn Pro Phe Pro
 355 360 365
 Asp Gln Asn Pro Ala Arg Ala Gly Ala Gly Cys Ala Pro Gln Ser Ala
 370 375 380
 Gly Val
 385

<210> 7930

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 7930

Tyr Val Tyr Leu Arg Pro Leu Val Lys Thr Leu Leu Thr Met Leu Leu
 1 5 10 15
 Met Gly Val Phe Phe Leu Ile Arg Phe Ser Leu Ile Gly Pro Tyr Gln
 20 25 30
 Arg Ala Val Asp Asp Ser Ile Glu Arg Thr Ala Gln Tyr Glu Ser Leu
 35 40 45
 Leu Val Glu Thr Gln Lys Gly Ile Ile Thr Leu Lys Ala Asn Asn Met
 50 55 60
 Glu Gln Ala Arg Asp Ala Val Met Asp Lys Ser Gln Arg Glu His Ile
 65 70 75 80
 Ala Gly Leu Met Arg Lys Glu Arg Leu Leu Ala Arg Phe Asp Val Ala
 85 90 95
 Ser Leu Leu Val Ile Asn Ala Glu Gln Leu Leu Val Val Cys Phe Gly
 100 105 110
 Ala Trp Leu Ile Leu Glu Gly Gln Met Ser Ile Gly Met Leu Tyr Ala
 115 120 125
 Tyr Ile Ser Tyr Lys Arg Tyr Phe Ser Asp Ala Met Val Gln Val Ala
 130 135 140
 Gln Lys Leu Leu Asp Lys Asn Ala Leu Lys Gly Pro Leu Asp Arg Val
 145 150 155 160
 Gly Asp Leu Leu Phe Ala Pro Ser Glu Thr Ser Gln Phe Gly Lys Arg
 165 170 175
 Ile Val Thr Ser Pro Val Cys Leu Gln Phe Glu Asp Val Ser Phe Ala
 180 185 190
 Tyr Pro Gly Arg Glu Ala Thr Leu Gln His Ile Asn Met Thr Leu Lys
 195 200 205
 Gln Gly Glu Glu Ala Val Ile Val Gly Gln Ser Gly Ser Gly Lys Thr
 210 215 220
 Thr Leu Leu Arg Leu Ile Ser Gly Met Leu Leu Ala Ser Ser Gly Thr
 225 230 235 240
 Leu Arg Ile Asn Lys Ile Pro Ile Glu Glu Cys Asp Leu Ser Ser Leu
 245 250 255
 Arg Gln His Ile Arg Ile Val His Ala Asp Asp Ile Leu Phe Thr Gly
 260 265 270
 Ser Ile Leu Asp Asn Ile Ala Cys Phe Asp Ser Ala Pro Asp Lys Glu
 275 280 285
 Gln Val Ile Ala Ala Cys Arg Leu Ala Glu Val Asp His Val Val Ala
 290 295 300
 Arg Leu Pro His Gly Tyr Glu Thr Glu Met Leu Pro Gly Asn Thr Phe
 305 310 315 320
 Phe Ser Ala Gly Glu Met Gln Arg Leu Val Leu Ala Arg Ala Leu Tyr
 325 330 335
 Ser Gln Pro Lys Leu Leu Leu Cys Asp Glu Val Thr Ala Asn Leu Asp
 340 345 350
 Lys Thr Thr Ala Gln Lys Val Leu Ala Asn Leu Arg Ser Leu Gly Ile
 355 360 365
 Gly Leu Val Phe Val Thr His Ser Pro Asp Val Val Gly Cys Gln Gly
 370 375 380

Arg Leu Tyr Thr Met Glu Asn Gly Thr Leu Arg Glu Ser Glu Gln
 385 390 395 400

<210> 7931
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 7931

Met Lys Gly Val Leu Met Arg Leu Trp Pro Val Val Thr Gly Val Ala
 1 5 10 15
 Ile Ala Leu Thr Leu Val Ala Cys Lys Ser Pro Thr Pro Pro Lys Gly
 20 25 30
 Val Gln Pro Ile Thr Gly Phe Asp Ala Ser Arg Tyr Leu Gly Lys Trp
 35 40 45
 Tyr Glu Val Ala Arg Leu Glu Asn Arg Phe Glu Arg Gly Leu Glu Gln
 50 55 60
 Val Thr Ala Thr Tyr Gly Lys Arg Ser Asp Gly Gly Ile Ser Val Leu
 65 70 75 80
 Asn Arg Gly Tyr Asp Pro Val Lys Asn Lys Trp Asn Glu Ser Glu Gly
 85 90 95
 Lys Ala Tyr Phe Thr Gly Glu Pro Thr Thr Ala Ala Leu Lys Val Ser
 100 105 110
 Phe Phe Gly Pro Phe Tyr Gly Gly Tyr Asn Val Ile Lys Leu Asp Asp
 115 120 125
 Lys Tyr Gln Tyr Ala Leu Val Ser Gly Pro Asn Arg Asp Tyr Leu Trp
 130 135 140
 Ile Leu Ser Arg Thr Pro Thr Ile Pro Asp Ala Val Lys Gln Asp Tyr
 145 150 155 160
 Leu Asn Thr Ala Arg Gly Leu Gly Phe Arg Val Asp Gln Leu Val Trp
 165 170 175
 Val Lys His
 180

<210> 7932
 <211> 164
 <212> PRT
 <213> Enterobacter cloacae

<400> 7932

Arg Ile Ala Ser Met Thr Arg Phe Arg Gln Met Leu Tyr Ile Ile Val
 1 5 10 15
 Thr Gly Leu Val Met Ala Gly Val Leu Thr Gly Tyr Tyr Leu Trp His
 20 25 30
 Arg Thr Tyr Val Gln Pro Phe Ser Cys Gln Ala Asn Leu Val Gln His
 35 40 45
 His Pro Asp Glu Thr Leu Thr Val Trp Leu Asn Tyr Thr Phe Asp Gly
 50 55 60
 Lys Phe Gly Thr Leu Ser Met Asn Gly Arg Ala Lys Ser Asp Pro Gly
 65 70 75 80
 Lys Thr Ile Asp Arg Lys Ile Ser Phe Arg Val Glu Arg Gln Asp His
 85 90 95
 Leu Tyr Leu Leu Thr Ser Glu Lys Asn Met Thr Phe Pro Asp Asp Asn
 100 105 110
 Val Asp Asp Ser Trp Leu Glu Lys Tyr Glu Pro Gln Phe Val Tyr
 115 120 125
 Pro Gly Lys Ser Ile Tyr Met Arg Ile Asn Glu Gln His Asn Gly Asn
 130 135 140
 Tyr Ile Phe Thr Leu Gly Thr Leu Pro Thr Tyr Val Cys Arg Gly Ser
 145 150 155 160
 Lys Lys Glu

<210> 7933
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 7933
 Cys Ser Ala Ser Ser Phe Val Ile Gly Val Leu His Gln Leu Val Thr
 1 5 10 15
 Pro Ile Gln Trp Val Met Met Ser Asp Thr Val Glu Tyr Gly Glu Trp
 20 25 30
 Thr Asn Gly Lys Arg Leu Thr Gly Ile Ser Phe Ala Gly Thr Leu Phe
 35 40 45
 Val Leu Lys Leu Gly Leu Ala Leu Gly Gly Ala Met Ile Gly Trp Met
 50 55 60
 Leu Ala Gly Gly Gly Tyr Asp Ala Ala Lys Thr Gln Asn Ser Ala
 65 70 75 80
 Thr Ile Ser Ile Ile Ile Gly Leu Phe Thr Leu Ala Pro Ala Ile Cys
 85 90 95
 Tyr Val Leu Ser Ala Ile Ile Ala Lys Arg Tyr Tyr Thr Leu Lys Thr
 100 105 110
 Pro Phe Leu Thr Lys Ile Leu Arg Glu Leu Ala Gln Gly Ala Arg Arg
 115 120 125
 Asn Gln Gln Glu Phe Glu Asn Leu Pro Val Ser Lys Glu Leu Gln Asn
 130 135 140
 145

<210> 7934
 <211> 793
 <212> PRT
 <213> Enterobacter cloacae

<400> 7934
 Glu Asp Glu Ser Met Lys Ile Ser Asp Gly Asn Trp Leu Ile Gln Pro
 1 5 10 15
 Gly Leu Asn Val Thr Tyr Pro Val Gln Val Phe Asp Val Glu Gln Gln
 20 25 30
 Gly Asn Asp Leu Val Val Tyr Val Ala Pro Arg Asp Val Arg Glu Arg
 35 40 45
 Thr Trp Gln Leu Asp Thr Leu Met Phe Thr Val Arg Leu Phe Ala Pro
 50 55 60
 Gln Glu Gly Ile Val Gly Val Arg Ile Glu His Phe Gln Gly Ala Leu
 65 70 75 80
 Asn Lys Gly Pro His Tyr Pro Leu Asn Val Leu Lys Asp Val Lys Val
 85 90 95
 Glu Ile Glu Asn Asn Ala Glu Phe Ala Glu Leu Lys Ser Gly Ser Val
 100 105 110
 Ser Val Arg Val Thr Lys Gly Glu Phe Trp Ala Leu Asp Phe Leu Arg
 115 120 125
 Asn Gly Gln Arg Ile Thr Gly Ser Gln Leu Lys Asn Asn Gly Tyr Val
 130 135 140
 Gln Asp Asn Asn Thr Asp Arg Asn Tyr Val Phe Glu Arg Leu Asp Leu
 145 150 155 160
 Gly Val Gly Glu Thr Val Tyr Gly Leu Gly Glu Arg Phe Thr Ala Leu
 165 170 175
 Val Arg Asn Gly Gln Thr Val Glu Thr Trp Asn Arg Asp Gly Gly Thr
 180 185 190
 Ser Thr Glu Gln Ser Tyr Lys Asn Ile Pro Phe Tyr Leu Thr Asn Arg
 195 200 205

Gly	Tyr	Gly	Val	Leu	Val	Asn	His	Pro	Glu	Asn	Val	Ser	Phe	Glu	Val
210						215					220				
Gly	Ser	Glu	Lys	Val	Ser	Lys	Val	Gln	Phe	Ser	Val	Glu	Gly	Glu	Tyr
225						230					235				240
Leu	Glu	Tyr	Phe	Val	Ile	Asp	Gly	Pro	Thr	Pro	Lys	Glu	Val	Leu	Asn
				245					250					255	
Arg	Tyr	Thr	Arg	Phe	Thr	Gly	Arg	Pro	Ala	Leu	Pro	Pro	Ala	Trp	Ser
			260					265					270		
Phe	Gly	Leu	Trp	Leu	Thr	Thr	Ser	Phe	Thr	Thr	Asn	Tyr	Asp	Glu	Ala
		275					280					285			
Thr	Val	Asn	Ser	Phe	Ile	Asp	Gly	Met	Ala	Glu	Arg	Asp	Leu	Pro	Leu
	290					295					300				
His	Val	Phe	His	Phe	Asp	Cys	Phe	Trp	Met	Lys	Ala	Phe	Gln	Trp	Cys
305					310						315				320
Asp	Phe	Glu	Trp	Asp	Pro	Val	Thr	Phe	Pro	Asp	Pro	Glu	Gly	Met	Ile
				325					330					335	
Arg	Arg	Leu	Lys	Glu	Lys	Gly	Leu	Lys	Val	Cys	Val	Trp	Ile	Asn	Pro
			340						345					350	
Tyr	Ile	Gly	Gln	Lys	Ser	Pro	Ile	Phe	Arg	Glu	Leu	Lys	Glu	Lys	Gly
		355					360					365			
Tyr	Leu	Leu	Lys	Arg	Pro	Asp	Gly	Ser	Leu	Trp	Gln	Trp	Asp	Lys	Trp
	370					375					380				
Gln	Pro	Gly	Leu	Ala	Ile	Tyr	Asp	Phe	Thr	Asn	Pro	Asp	Ala	Cys	Arg
385					390						395				400
Trp	Tyr	Ala	Asp	Lys	Leu	Lys	Gly	Leu	Val	Glu	Ile	Gly	Val	Asp	Cys
				405					410					415	
Phe	Lys	Thr	Asp	Phe	Gly	Glu	Arg	Ile	Pro	Thr	Asp	Val	Gln	Trp	Phe
			420					425					430		
Asp	Gly	Ser	Asp	Pro	Gln	Lys	Met	His	Asn	His	Tyr	Ala	Tyr	Ile	Tyr
		435					440					445			
Asn	Glu	Leu	Val	Trp	Asn	Val	Leu	Lys	Glu	Thr	Val	Gly	Glu	Glu	Glu
	450					455					460				
Ala	Val	Leu	Phe	Ala	Arg	Ser	Ala	Ser	Val	Gly	Ala	Gln	Gln	Phe	Pro
465					470					475					480
Val	His	Trp	Gly	Gly	Asp	Cys	Tyr	Ala	Asn	Tyr	Glu	Ser	Met	Ala	Glu
				485					490					495	
Ser	Leu	Arg	Gly	Gly	Leu	Ser	Ile	Gly	Leu	Ser	Gly	Phe	Gly	Phe	Trp
			500					505					510		
Ser	His	Asp	Ile	Gly	Gly	Phe	Glu	Asn	Thr	Ala	Pro	Ala	His	Val	Tyr
		515					520					525			
Lys	Arg	Trp	Cys	Ala	Phe	Gly	Leu	Phe	Ser	Ser	His	Ser	Arg	Leu	His
	530					535					540				
Gly	Ser	Lys	Ser	Tyr	Arg	Val	Pro	Trp	Ala	Tyr	Asp	Asp	Glu	Ser	Cys
545					550					555					560
Asp	Val	Val	Arg	His	Phe	Thr	Gln	Leu	Lys	Cys	Gln	Leu	Met	Pro	Tyr
				565					570					575	
Leu	Tyr	Arg	Gln	Ala	Ala	Leu	Ala	Arg	Glu	Phe	Gly	Thr	Pro	Met	Leu
			580					585					590		
Arg	Ala	Met	Met	Leu	Glu	Phe	Pro	Asp	Asp	Pro	Ala	Cys	Asp	Tyr	Leu
		595					600					605			
Asp	Arg	Gln	Tyr	Met	Leu	Gly	Asp	Ser	Met	Met	Val	Ala	Pro	Val	Phe
	610					615					620				
Ser	Glu	Ala	Gly	Asp	Val	Gln	Phe	Tyr	Leu	Pro	Glu	Gly	Arg	Trp	Thr
625					630					635					640
His	Leu	Trp	His	Asn	Asp	Glu	Ile	Glu	Gly	Ser	Arg	Trp	His	Lys	Gln
				645					650					655	
Gln	His	Asp	Phe	Met	Ser	Leu	Pro	Val	Tyr	Val	Arg	Asp	Asn	Thr	Leu
			660					665					670		
Leu	Ala	Leu	Gly	Asn	Asn	Asn	Gln	Lys	Pro	Asp	Tyr	Ala	Trp	His	Glu
	675						680					685			
Gly	Thr	Ala	Phe	Gln	Leu	Phe	Asn	Leu	Ser	Asp	Gly	Ala	Thr	Ala	Val

690	695	700
Ser Glu Val Pro Ala Ala Asp Gly Ser Val Leu Phe Thr Leu Lys Ala		
705	710	715
Ser Arg Gln Gly Asp Val Val Thr Phe Thr Gly Thr Gly Asp Ala Gln		
	725	730
Asn Trp Ser Val Cys Leu Arg Asn Val Gln Lys Val Gly Gly Val Lys		
	740	745
Gly Gly Ser His Ala Gly Ser Glu Trp Gly Val Val Val Lys Ala Glu		
	755	760
Gly Asp Glu Val Met Val His Leu Cys Ala Val Phe Thr Ser Glu Arg		
	770	775
Pro Ile Arg Asp Tyr Leu Pro Gln		780
785	790	

<210> 7935

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7935

Gly Phe Leu Thr Met Gln Pro Ile Ser Gly Thr Pro Pro Arg Pro Pro	
1 5 10 15	
Gly Glu Gly Pro Val Thr Pro Asn Thr Pro Gly Glu Gln Pro Leu Ser	
20 25 30	
Thr Gln Gln Arg Thr Val Leu Glu Arg Leu Ile Thr Arg Leu Ile Ala	
35 40 45	
Leu Thr Ser Gln Gln Asn Ala Glu Val Trp Ala Gly Val Lys His Asp	
50 55 60	
Leu Gly Val Arg Asn Asp Ala Gln Leu Gln Ser Arg His Phe Pro Ala	
65 70 75 80	
Ala Glu Gln Asn Leu Asn Gln Arg Leu Thr Ser Ala Gln Gln Gln His	
85 90 95	
Thr Thr Arg Gln Ile Ile Ser Gln Leu Thr Glu Leu Leu Gly Gln Gly	
100 105 110	
Asn Asn Arg Gln Ala Val Ser Asp Phe Ile Arg Gln Gln Tyr Gly His	
115 120 125	
Thr Ala Leu Ser Gln Leu Ser Pro Glu Gln Leu Lys Thr Val Leu Thr	
130 135 140	
Leu Leu Gln Ser Asn Gln Leu Ser Ile Pro Gln Pro Gln Gln Arg Pro	
145 150 155 160	
Ser Thr Glu Arg Pro Leu Gln Pro Ala Glu His Asn Thr Leu Lys Gln	
165 170 175	
Met Val Thr Lys Leu Ala Ala Ala Thr Gly Glu Pro Thr Lys Leu Ile	
180 185 190	
Trp Gln Ser Met Leu Glu Leu Ser Gly Val Lys Ala Gly Glu Met Ile	
195 200 205	
Pro Ala Lys Gln Phe Thr His Leu Val Thr Trp Leu Gln Ala Arg Gln	
210 215 220	
Thr Leu Ser Thr Gln Ser Ala Pro Thr Leu His Ser Val Gln Ala Ala	
225 230 235 240	
Leu Lys Gln Pro Leu Glu Pro His Glu Phe Asp Thr Ile Arg Asp Tyr	
245 250 255	
Ala Gln Gln Ser Trp Gln Ala Thr Pro Gln Thr Val Leu Thr Thr Ala	
260 265 270	
Gln Val Gln Asp Val Leu Asn Gln Ile Phe Val Arg Arg Ala Glu Arg	
275 280 285	
Glu Gly Gly Val Pro Glu Val Arg Asn Ile Gln Pro Ile Tyr Asn Pro	
290 295 300	
Leu Phe Ala Pro Val Val Asp Thr Phe Lys Thr Leu Ser Ala Arg Pro	
305 310 315 320	
Gly Leu Met Leu Ile Ala Leu Val Ile Ala Leu Ala Ile Phe Trp Leu	

Val Ala

325 330 335

<210> 7936
 <211> 339
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (314)

<400> 7936

Leu	Asn	Glu	Val	Met	Val	Met	Ser	Gln	Lys	Thr	Leu	Phe	Lys	Gln	Thr
1				5					10					15	
Ala	Leu	Ala	Val	Ala	Val	Ala	Ile	Val	Ser	Thr	Ser	Ala	Trp	Ser	Ala
			20					25					30		
Gly	Phe	Gln	Leu	Asn	Glu	Phe	Ser	Ser	Ser	Gly	Leu	Gly	Arg	Ala	Tyr
		35					40					45			
Ser	Gly	Glu	Gly	Ala	Ile	Ala	Asp	Asp	Ala	Gly	Asn	Ala	Ser	Arg	Asn
	50					55					60				
Pro	Ala	Leu	Ile	Met	Met	Phe	Asp	Arg	Pro	Thr	Phe	Ser	Ala	Gly	Ala
65				70						75					80
Val	Tyr	Ile	Asp	Pro	Asp	Val	Asn	Ile	Ser	Gly	Lys	Ser	Gln	Phe	Thr
				85					90					95	
Gly	Ala	Asp	Leu	Lys	Ala	Asp	Asn	Ile	Ala	Pro	Thr	Ala	Trp	Val	Pro
			100					105					110		
Asn	Leu	His	Phe	Val	Ala	Pro	Ile	Asn	Glu	Gln	Phe	Gly	Trp	Gly	Ala
		115					120					125			
Ser	Val	Thr	Ser	Asn	Tyr	Gly	Leu	Ala	Thr	Glu	Phe	Asn	Asn	Asn	Tyr
	130					135					140				
Pro	Ala	Gly	Glu	Tyr	Gly	Gly	Lys	Thr	Asp	Leu	Thr	Thr	Leu	Asn	Leu
145					150					155					160
Asn	Leu	Ser	Gly	Ala	Tyr	Arg	Leu	Asn	Asp	Asn	Trp	Ser	Phe	Gly	Leu
				165					170					175	
Gly	Phe	Asp	Ala	Val	Tyr	Ala	Asp	Ala	Lys	Ile	Glu	Arg	Tyr	Ser	Gly
			180					185					190		
Glu	Gln	Thr	Ala	Ala	Leu	Pro	Lys	Asn	Ser	Asn	Lys	Ile	Ala	Ser	Leu
		195					200					205			
Lys	Gly	Asp	Glu	Trp	Gly	Tyr	Gly	Trp	Asn	Ala	Gly	Ile	Leu	Tyr	Glu
	210					215					220				
Leu	Asp	Lys	Asn	Asn	Arg	Trp	Gly	Leu	Thr	Tyr	Arg	Ser	Glu	Val	Lys
225					230					235					240
Ile	Asp	Phe	Asp	Gly	Asp	Tyr	Lys	Ser	Gly	Ile	Leu	Ser	Pro	Val	Asn
				245					250					255	
Gly	Met	Val	Pro	Gly	Ala	Gly	Thr	Thr	Ile	Pro	Trp	Gly	Thr	Ser	Asn
			260					265					270		
Gln	Thr	Val	Pro	Gly	Ser	Leu	Ser	Leu	His	Leu	Pro	Lys	Met	Trp	Glu
		275					280					285			
Val	Ser	Gly	Tyr	Asn	Arg	Val	Ala	Pro	Gln	Trp	Ala	Ile	His	Tyr	Ser
	290					295					300				
Leu	Ala	Tyr	Thr	Ser	Trp	Asn	Gln	Phe	Xaa	Glu	Leu	Lys	Ser	Thr	Gly
305					310					315					320
Ser	Asn	Gly	Gln	Thr	Leu	Phe	Tyr	Lys	Glu	Glu	Lys	Leu	Thr	Met	Leu
				325					330					335	

Tyr Leu Ser

<210> 7937
 <211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 7937

Leu	Phe	Val	Ala	Arg	Arg	Glu	Gly	Ser	Ser	Asp	Gly	Ala	Ala	Ala	Ser
1				5					10					15	
Pro	Ala	Arg	Thr	Ser	Ser	Ala	Ala	Pro	Ser	Gly	Gly	Trp	Ala	Gly	Ser
			20					25					30		
Ala	Cys	Val	Ala	Ala	Gly	Ser	Ile	Ser	Gly	Ser	Ser	Arg	Ser	Pro	Gly
		35					40					45			
Leu	Gly	Thr	Ser	Gly	Met	Ala	Ala	Asn	Ser	Ser	Trp				
	50					55					60				

<210> 7938

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 7938

Pro	Pro	Ser	Ala	Val	Pro	Arg	Thr	Cys	Gly	Ala	Thr	Arg	Phe	Thr	Thr
1				5					10					15	
Ser	Thr	Pro	Ser	Ala	Gly	Lys	Ile	Ser	Glu	Gln	Pro	Gln	Pro	Val	Asn
			20					25					30		
Ala	Ala	Pro	Ser	Ser	Ala	Thr	Asp	Ala	Glu	Gly	Ala	Cys	Gln	Ser	Ser
		35					40					45			
Thr	Arg	Pro	Thr	Val	Ser	Met	Thr	Ser	Asp	Asp	Thr	Ala	Thr	Phe	Thr
	50					55					60				
Pro	Pro	Lys	Arg	Ser	Ser	Ile	Gln	Pro	Asn	Ser	Thr	Arg	Ile	Asn	Thr
65					70					75				80	
Asn	Ala	Pro	Pro	Lys	Ala	Val	Ser	Val	Lys	Pro	Ala	Ile	Ala	Gln	Pro
				85					90					95	
Arg	Leu	Met	Lys												
			100												

<210> 7939

<211> 724

<212> PRT

<213> Enterobacter cloacae

<400> 7939

Ser	Leu	His	Val	Ser	Phe	Asn	Thr	Ser	Val	Ser	Arg	Thr	Ile	Lys	Ser
1				5					10					15	
Phe	Glu	Ser	His	Asn	Ser	Val	His	Leu	Tyr	Ala	Glu	Gln	Val	Arg	Ser
			20					25					30		
Ala	Ile	Phe	Cys	Gly	Asn	Leu	His	Arg	Trp	Ala	His	Ile	Ala	Lys	Ile
		35					40					45			
Val	Pro	Leu	Pro	Val	Gly	Arg	Val	Thr	Tyr	Val	Lys	Gln	Asn	Ala	Ile
	50					55					60				
Gln	Pro	Ala	Asn	Leu	Glu	Phe	Asn	Ala	Glu	Gly	Thr	Pro	Val	Ser	Arg
65					70					75				80	
Asp	Phe	Asp	Asp	Val	Tyr	Phe	Ser	Asn	Asp	Asn	Gly	Leu	Glu	Glu	Thr
				85					90					95	
Arg	Tyr	Val	Phe	Leu	Glu	Gly	Asn	His	Leu	Ser	Thr	Arg	Phe	Pro	Glu
			100					105					110		
His	Pro	Arg	Arg	Leu	Phe	Val	Val	Ala	Glu	Ser	Gly	Phe	Gly	Thr	Gly
		115						120				125			
Leu	Asn	Phe	Leu	Thr	Leu	Trp	Gln	Ala	Phe	Asp	Cys	Phe	Arg	Ala	Ala
	130					135					140				
Tyr	Pro	Glu	Ala	Thr	Leu	Gln	Arg	Leu	His	Phe	Ile	Ser	Phe	Glu	Lys
145					150					155				160	
Phe	Pro	Leu	Thr	Ala	His	Asp	Leu	Arg	Leu	Ala	His	Gln	Arg	Trp	Pro

				165				170				175			
Glu	Leu	Ala	His	Trp	Ala	Glu	Gln	Leu	Gln	Thr	Gln	Trp	Pro	Pro	Ala
180				185				190				195			
Ile	Gly	Gly	Cys	His	Arg	Leu	Ile	Leu	Asp	Asp	Gly	Arg	Val	Thr	Leu
195				200				205				210			
Asp	Leu	Trp	Leu	Gly	Asp	Ile	Asn	Asp	Leu	Thr	Asp	Lys	Leu	Asp	Asp
210				215				220				225			
Ser	Met	Asn	Gln	Lys	Val	Asp	Ala	Trp	Phe	Leu	Asp	Gly	Phe	Ala	Pro
225				230				235				240			
Ala	Lys	Asn	Pro	Asp	Met	Trp	Ser	Pro	His	Leu	Phe	Ser	Ala	Met	Ala
245				250				255				260			
Arg	Leu	Ala	Arg	Pro	Gly	Ala	Thr	Leu	Ala	Thr	Phe	Thr	Ser	Ala	Gly
260				265				270				275			
Phe	Val	Arg	Arg	Gly	Leu	Gln	Glu	Ala	Gly	Phe	Thr	Met	Arg	Lys	Thr
275				280				285				290			
Lys	Gly	Phe	Gly	Arg	Lys	Arg	Asp	Met	Leu	Val	Gly	Val	Met	Glu	Gln
290				295				300				305			
Asp	Leu	Ala	Ile	Pro	Ala	Gln	Ala	Pro	Trp	Phe	Ala	Arg	Arg	Ala	Ser
310				315				320				325			
Thr	Ser	Arg	Glu	Val	Ala	Ile	Val	Gly	Gly	Gly	Ile	Ala	Ser	Ala	Leu
325				330				335				340			
Leu	Ser	Leu	Ala	Leu	Leu	His	Arg	Gly	Trp	Gln	Val	Thr	Leu	Tyr	Cys
340				345				350				355			
Ala	Asp	Glu	Ala	Pro	Ala	Thr	Gly	Ala	Ser	Gly	Asn	Arg	Gln	Gly	Ala
355				360				365				370			
Leu	Tyr	Pro	Leu	Leu	Ser	Ser	His	Asp	Pro	Ala	Leu	Phe	Gln	Phe	Phe
370				375				380				385			
Pro	Ala	Ala	Phe	Thr	Phe	Ala	Arg	Arg	Leu	Tyr	Asp	Ser	Leu	Pro	Val
385				390				395				400			
Ala	Phe	Asp	His	Asp	Trp	Cys	Gly	Val	Thr	Gln	Leu	Gly	Trp	Asp	Glu
405				410				415				420			
Lys	Ser	Gln	Gln	Lys	Ile	Thr	Gln	Met	Leu	Ser	Leu	Gly	Leu	Pro	Glu
420				425				430				435			
Asp	Ile	Ala	His	Ala	Val	Thr	Ala	Gln	Gln	Val	Thr	Glu	Thr	Thr	Gly
435				440				445				450			
Val	Asp	Thr	Gly	Cys	Gly	Gly	Ile	Gln	Tyr	Pro	Leu	Gly	Gly	Trp	Leu
450				455				460				465			
Cys	Pro	Ala	Glu	Leu	Thr	Ser	Ala	Ala	Ile	Ala	Leu	Gly	Gln	Ser	Arg
465				470				475				480			
Gly	Leu	Thr	Val	His	Tyr	Ala	His	Lys	Val	Gln	Ser	Leu	Ser	Arg	Thr
485				490				495				500			
Ala	His	Trp	Lys	Leu	Arg	Phe	Ala	Asp	Gly	Lys	Glu	Ala	Gln	His	Ala
500				505				510				515			
Ser	Val	Val	Leu	Ala	Asn	Gly	His	His	Ile	Thr	Gln	Phe	Thr	Gln	Thr
515				520				525				530			
Ala	Ser	Leu	Ala	Val	Tyr	Pro	Val	Gly	Gly	Gln	Val	Ser	His	Ile	Pro
530				535				540				545			
Thr	Ala	Pro	Gln	Leu	Ser	Lys	Leu	Arg	Gln	Val	Leu	Cys	Tyr	Asp	Gly
545				550				555				560			
Tyr	Leu	Thr	Pro	Gln	Asn	Pro	Ser	Asn	Gly	His	His	Cys	Ile	Gly	Ala
565				570				575				580			
Ser	Tyr	His	Arg	Gly	Glu	Thr	Asp	Met	Gln	Tyr	Ser	Glu	Ala	Asp	Gln
580				585				590				595			
Gln	Gln	Asn	Arg	Gln	Arg	Leu	Val	Asp	Cys						

Ala Val Ser Ala Pro Val His Pro Glu Leu Phe Met Leu Gly Gly Leu
 660 665 670
 Gly Ser Arg Gly Leu Cys Ser Ala Pro Leu Leu Ala Glu Ala Leu Ala
 675 680 685
 Ala Gln Met Ser Asp Glu Pro Val Pro Leu Asp Arg Val Thr Leu Ala
 690 695 700
 Gly Leu Asn Pro Asn Arg Leu Trp Val Arg Lys Leu Leu Lys Gly Lys
 705 710 715 720
 Met Val Lys

<210> 7940

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7940

Arg Met Lys Lys Lys Thr Ser Leu Ser Glu Glu Asp Gln Ala Leu Phe
 1 5 10 15
 Arg Gln Leu Met Thr Gly Thr Arg Gln Ile Thr His Asp Thr Ile Val
 20 25 30
 His Arg Pro Gln Arg Lys Lys Ile Ser Glu Val Pro Val Lys Arg Leu
 35 40 45
 Leu Gln Glu Gln Ala Asp Asn Ser His Tyr Phe Ser Asp Glu Phe Gln
 50 55 60
 Pro Leu Leu Ser Thr Gln Gly Ala Val Lys Tyr Val Arg Glu Asp Val
 65 70 75 80
 Ser His Phe Glu Leu Lys Lys Leu Arg Arg Gly Asp Tyr Ser Pro Glu
 85 90 95
 Leu Phe Leu Asp Leu His Gly Leu Thr Gln Met Gln Ala Lys Gln Glu
 100 105 110
 Leu Gly Ala Leu Ile Ala Ala Cys Arg Arg Glu His Val Phe Cys Ala
 115 120 125
 Cys Val Met His Gly His Gly Lys His Ile Leu Lys Gln Gln Thr Pro
 130 135 140
 Leu Trp Leu Ala Gln His Pro His Val Met Ala Phe His Gln Ala Pro
 145 150 155 160
 Lys Glu Tyr Gly Gly Asp Ala Ala Leu Leu Val Leu Ile Glu Val Glu
 165 170 175
 Glu Trp Gln Pro Pro Glu Leu Pro
 180 185

<210> 7941

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7941

Gln Lys Arg Cys Asn Met Gln Val Phe Ile Met Arg His Gly Asp Ala
 1 5 10 15
 Ala Leu Asp Ala Ala Ser Asp Ser Val Arg Pro Leu Thr Val Cys Gly
 20 25 30
 Cys Asp Glu Ser Arg Gln Met Ala Thr Trp Leu Lys Gly Gln Lys Val
 35 40 45
 Asp Ile Glu Arg Val Leu Val Ser Pro Phe Leu Arg Ala Glu Gln Thr
 50 55 60
 Leu Asp Val Val Gly Glu Cys Met Asn Leu Pro Ser Ser Val Asp Val
 65 70 75 80
 Leu Pro Glu Leu Thr Pro Cys Gly Asp Val Gly Leu Val Ser Ala Tyr
 85 90 95
 Leu Gln Ala Leu Cys Asn Glu Gly Val Ala Ser Ala Leu Val Ile Ser

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<210> 7942
<211> 274
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7943
<211> 122
<212> PRT
<213> Enterobacter cloacae
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Ser Arg Leu Tyr Arg Ile Ile Thr Thr Arg Arg Arg Ser Arg Arg Asn
1 5 10 15

Ala Ser Arg Gly Arg Lys Ile Phe Asn Arg Gly Lys Lys Met Ile Ala
 20 25 30
 Glu Phe Glu Ser Arg Ile Leu Ala Leu Ile Asp Asp Met Val Glu His
 35 40 45
 Ala Ser Asp Asp Glu Leu Phe Ala Ser Gly Tyr Leu Arg Gly His Leu
 50 55 60
 Thr Leu Ala Val Ala Ala Leu Glu Ala Gly Asp Asp His Ser Ala Asp
 65 70 75 80
 Ala Val His Ala Glu Val Thr Arg Ser Leu Glu Asn Ala Ile Gln Ala
 85 90 95
 Gly Glu Leu Ser Pro Arg Asp Gln Ser Leu Val Leu Gly Met Trp Asp
 100 105 110
 Asn Leu Phe Gln Gln Ala Lys Ala Lys
 115 120

<210> 7944

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7944

Met Lys Arg Ala Val Ile Thr Gly Leu Gly Ile Val Ser Ser Ile Gly
 1 5 10 15
 Asn Asn Gln Gln Glu Val Leu Ala Ser Leu Arg Glu Gly Arg Ser Gly
 20 25 30
 Ile Thr Phe Ser Glu Glu Phe Lys Asp Ser Gly Met Arg Ser His Val
 35 40 45
 Trp Gly Asn Val Lys Leu Asp Thr Thr Gly Leu Ile Asp Arg Lys Val
 50 55 60
 Val Arg Phe Met Asn Asp Ala Ser Ile Tyr Ala Tyr Leu Ser Met Gln
 65 70 75 80
 Glu Ala Ile Lys Asp Ser Gly Leu Ser Glu Asp Val Tyr Gln Asn Asn
 85 90 95
 Pro Arg Val Gly Leu Ile Ala Gly Ser Gly Gly Ser Ser Lys Ala Gln
 100 105 110
 Val Phe Gly Ala Asp Ala Met Arg Ser Pro Arg Gly Leu Lys Ala Val
 115 120 125
 Gly Pro Tyr Val Val Thr Lys Ala Met Gly Ser Ala Val Ser Ala Cys
 130 135 140
 Leu Ala Thr Pro Phe Lys Ile His Gly Val Asn Tyr Ser Ile Ser Ser
 145 150 155 160
 Ala Cys Ala Thr Ser Ala His Cys Ile Gly Asn Ala Val Glu Gln Ile
 165 170 175
 Gln Leu Gly Lys Gln Asp Ile Val Phe Ala Gly Gly Gly Glu Glu Leu
 180 185 190
 Gly Trp Glu Met Ala Cys Glu Phe Asp Ala Met Gly Ala Leu Ser Thr
 195 200 205
 Lys Tyr Asn Glu Thr Pro Asp Lys Ala Ser Arg Thr Tyr Asp Ala His
 210 215 220
 Arg Asp Gly Phe Val Ile Ala Gly Gly Gly Gly Met Val Val Val Glu
 225 230 235 240
 Glu Leu Glu His Ala Leu Ala Arg Gly Ala His Ile Tyr Ala Glu Ile
 245 250 255
 Val Gly Tyr Gly Ala Thr Ser Asp Gly Ala Asp Met Val Ala Pro Ser
 260 265 270
 Gly Glu Gly Ala Val Arg Cys Met Lys Met Ala Met His Gly Val Asp
 275 280 285
 Thr Pro Ile Asp Tyr Leu Asn Ser His Gly Thr Ser Thr Pro Val Gly
 290 295 300
 Asp Val Lys Glu Leu Gly Ala Ile Arg Glu Val Phe Gly Asp Asn Ser
 305 310 315 320

Pro Ala Ile Ser Ala Thr Lys Ala Met Thr Gly His Ser Leu Gly Ala
 325 330 335
 Ala Gly Val Gln Glu Ala Ile Tyr Ser Leu Leu Met Leu Glu Asn Gly
 340 345 350
 Phe Ile Ala Pro Ser Ile Asn Ile Glu Glu Met Asp Glu Gln Ala Ala
 355 360 365
 Gly Leu Asn Ile Val Thr Glu Thr Thr Glu Arg Glu Leu Thr Thr Val
 370 375 380
 Met Ser Asn Ser Phe Gly Phe Gly Gly Thr Asn Ala Thr Leu Val Met
 385 390 395 400
 Arg Lys Leu Lys Ala
 405

<210> 7945

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 7945

Cys Ala Thr Phe Met Val Cys Trp Arg Gln Lys Trp His Tyr Ser Pro
 1 5 10 15
 Leu Thr Ala Lys Leu Ala Tyr Asp Gln Val Gln Ala Glu Arg Leu Ser
 20 25 30
 Met Ser Trp Ile Glu Arg Ile Lys Ser Asn Ile Thr Pro Thr Arg Lys
 35 40 45
 Ala Ser Ile Pro Glu Gly Val Trp Thr Lys Cys Asp Ser Cys Gly Gln
 50 55 60
 Val Leu Tyr Arg Ala Glu Leu Glu Arg Asn Leu Glu Val Cys Pro Lys
 65 70 75 80
 Cys Asp His His Met Arg Met Ser Ala Arg Asn Arg Leu His Ser Leu
 85 90 95
 Leu Asp Glu Gly Ser Leu Val Glu Leu Gly Ser Glu Leu Glu Pro Lys
 100 105 110
 Asp Val Leu Lys Phe Arg Asp Ser Lys Lys Tyr Lys Asp Arg Leu Ala
 115 120 125
 Ser Ala Gln Lys Glu Thr Gly Glu Lys Asp Ala Leu Ile Val Met Lys
 130 135 140
 Gly Thr Leu His Glu Met Pro Val Val Ala Ala Phe Glu Phe Ser
 145 150 155 160
 Phe Met Gly Gly Ser Met Gly Ser Val Val Gly Ala Arg Phe Val Arg
 165 170 175
 Ala Val Glu Gln Ala Leu Glu Asp Asn Cys Pro Leu Ile Cys Phe Ser
 180 185 190
 Ala Ser Gly Gly Ala Arg Met Gln Glu Ala Leu Met Ser Leu Met Gln
 195 200 205
 Met Ala Lys Thr Ser Ala Ala Leu Ala Lys Met Gln Glu Arg Gly Leu
 210 215 220
 Pro Tyr Ile Ser Val Leu Thr Asp Pro Thr Met Gly Gly Val Ser Ala
 225 230 235 240
 Ser Phe Ala Met Leu Gly Asp Leu Asn Ile Ala Glu Pro Lys Ala Leu
 245 250 255
 Ile Gly Phe Ala Gly Pro Arg Val Ile Glu Gln Thr Val Arg Glu Lys
 260 265 270
 Leu Pro Pro Gly Phe Gln Arg Ser Glu Phe Leu Ile Glu Lys Gly Ala
 275 280 285
 Ile Asp Met Ile Val Arg Arg Pro Glu Met Arg Leu Lys Leu Ala Ser
 290 295 300
 Ile Leu Ala Lys Leu Met Asn Leu Pro Ala Pro Asn Pro Asp Glu Pro
 305 310 315 320
 Arg Glu Gly Val Val Val Pro Asp Gln Glu Pro Glu Ala
 325 330

<210> 7946
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 7946

Asn	Gln	Ile	His	Leu	His	Gly	Ser	Arg	Arg	Arg	Arg	Ala	Ala	Gly	Tyr
1				5					10					15	
Arg	Leu	Cys	Val	Arg	Leu	Arg	Ser	Arg	Asn	Ala	Asp	Leu	Pro	Val	Arg
			20					25					30		
Pro	Ala	Leu	Ile	Leu	Phe	Ala	Arg	Ala	Tyr	Asp	Arg	Val	Gly	Arg	Val
		35					40					45			
Arg	Gln	Arg	Arg	Asn	Pro	Ala	Thr	Asn	Leu	Thr	Asn	Ala	Ser	Ala	Met
		50				55					60				
Gln	Gly	His	Phe	Leu	Phe	Leu	Leu	Cys	Ala	Leu	Ala	Arg	Asn	Phe	Ser
65				70						75				80	
Leu	Pro	Arg	Leu	Ala	Gln	Cys	Lys	Lys	Ile	Val	Lys	Thr	Ile	Ile	Arg
				85					90					95	
Ser	Asp	His	Leu	Met	Cys	Ala	Gln	Asn	Phe	Phe	Thr	Gly	Glu	Cys	Tyr
			100					105					110		
Glu	Ser	Gly	Ile	Thr	Ala	Tyr	His	Pro	Thr	Arg					
		115					120								

<210> 7947
 <211> 717
 <212> PRT
 <213> Enterobacter cloacae

<400> 7947

Ile	Met	Glu	Thr	Thr	Ser	Ala	Phe	Asn	Leu	Ala	Val	Arg	Leu	Asp	Asn
1				5					10					15	
Val	Ala	Val	Ile	Thr	Ile	Asp	Val	Pro	Asp	Glu	Lys	Met	Asn	Thr	Leu
			20					25					30		
Lys	Ala	Glu	Phe	Gly	Val	Gln	Val	Arg	Ala	Met	Leu	Arg	Gln	Ile	Arg
		35					40					45			
Glu	Asn	Lys	Ala	Ile	Arg	Gly	Leu	Val	Phe	Ile	Ser	Ala	Lys	Pro	Asp
	50					55					60				
Asn	Phe	Ile	Ala	Gly	Ala	Asp	Ile	Asn	Met	Ile	Ala	Arg	Ala	Lys	Ser
65				70						75				80	
Ala	Gln	Glu	Ala	Glu	Asp	Leu	Ala	Arg	Gln	Gly	Gln	Gln	Val	Met	Ala
				85					90					95	
Glu	Ile	His	Ala	Leu	Ser	Ile	Pro	Val	Val	Ala	Ala	Ile	His	Gly	Ala
			100					105					110		
Cys	Leu	Gly	Gly	Gly	Leu	Glu	Leu	Ala	Leu	Ala	Cys	His	Ser	Arg	Ile
	115						120					125			
Cys	Thr	Asp	Asp	Ala	Lys	Thr	Val	Leu	Gly	Leu	Pro	Glu	Val	Gln	Leu
	130					135					140				
Gly	Leu	Leu	Pro	Gly	Ser	Gly	Gly	Thr	Gln	Arg	Leu	Pro	Arg	Leu	Val
145					150					155					160
Gly	Val	Ser	Thr	Ala	Leu	Glu	Met	Ile	Leu	Thr	Gly	Lys	Gln	Leu	Arg
				165					170					175	
Ala	Arg	Gln	Ala	Leu	Lys	Ala	Gly	Leu	Val	Asp	Glu	Val	Val	Pro	His
			180				185						190		
Ala	Ile	Leu	Glu	Ala	Ala	Val	Glu	Arg	Ala	Leu	Lys	Gly	Arg	Gln	
		195				200					205				
Ala	Lys	Arg	Pro	Leu	Pro	Val	Arg	Glu	Arg	Ile	Leu	Ala	Gly	Pro	Leu
	210					215					220				
Gly	Arg	Thr	Leu	Leu	Phe	Asn	Met	Val	Gly	Lys	Lys	Thr	Glu	Gln	Lys
225					230					235					240
Thr	Lys	Gly	Asn	Tyr	Pro	Ala	Ala	Thr	Arg	Ile	Leu	Lys	Val	Ile	Glu

<210> 7948

<211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 7948

Lys	Ile	Val	Ala	Val	Ile	Gly	Leu	Leu	Leu	Glu	Gln	Thr	Phe	Asp	Arg
1				5					10					15	
Asn	Leu	Ala	Asp	Phe	Phe	Thr	Leu	Arg	Ala	Met	Asp	Asn	Gly	Val	Val
			20					25					30		
Arg	Asp	Leu	Thr	Arg	Pro	Gly	His	Gln	Leu	Ala	Glu	Glu	Ser	Leu	Ile
		35				40					45				
Leu	Leu	Ala	Glu	Arg	Cys	Phe	Leu	Phe	His	Ser	Ser	Phe	Ser	Ser	Arg
	50					55					60				
Ile	Ser	Asp	Ser	Val	Pro	Asp									
65					70										

<210> 7949

<211> 325
 <212> PRT
 <213> Enterobacter cloacae

<400> 7949

Asp	Asp	His	Gln	Arg	Ala	Ser	Arg	Ser	Val	Arg	Gly	Asp	Pro	Arg	Gly
1				5					10					15	
Thr	Asp	Arg	Arg	Ser	Asp	Ala	Gly	Asp	Arg	Ala	Asp	Gly	Ser	Leu	Pro
			20					25					30		
Ala	Pro	Ala	Arg	Ala	Glu	Cys	Gly	Cys	Asp	Asp	His	His	Ser	Thr	Leu
		35				40					45				
Val	Thr	Met	Lys	Lys	Thr	Ala	Ile	Ala	Leu	Leu	Ala	Leu	Leu	Val	Ser
	50					55					60				
Gly	Ala	Ser	Leu	Ala	Ala	Thr	Pro	Trp	Gln	Lys	Ile	Thr	His	Pro	Val
65					70				75					80	
Ala	Gly	Ser	Ala	Gln	Ser	Ile	Gly	Ala	Phe	Ser	Asn	Gly	Cys	Ile	Val
			85					90					95		
Gly	Ala	Gln	Glu	Leu	Pro	Leu	Gln	Ser	Asp	Thr	Tyr	Gln	Val	Met	Arg
			100					105					110		
Thr	Asp	Gln	Arg	Arg	Tyr	Phe	Gly	His	Pro	Asp	Leu	Val	Leu	Phe	Ile
	115						120					125			
Gln	Arg	Leu	Gly	Asn	Gln	Val	His	Asn	Leu	Gly	Leu	Gly	Thr	Met	Leu
	130				135						140				
Ile	Gly	Asp	Met	Gly	Met	Pro	Ala	Gly	Gly	Arg	Phe	Asn	Gly	Gly	His
145					150				155						160
Ala	Ser	His	Gln	Thr	Gly	Leu	Asp	Val	Asp	Ile	Phe	Leu	Gln	Leu	Pro
			165					170						175	
Lys	Thr	Arg	Trp	Ser	Ser	Ala	Gln	Leu	Leu	Lys	Pro	Gln	Ala	Leu	Asp
		180						185					190		
Leu	Val	Ser	Ala	Asp	Gly	Lys	Arg	Val	Val	Ala	Ser	Arg	Trp	Ser	Pro
		195					200					205			
Glu	Ile	Ser	Ser	Met	Ile	Lys	Leu	Ala	Ala	Glu	Asp	Asn	Asp	Val	Thr
	210					215					220				
Arg	Ile	Phe	Val	Asn	Pro	Ala	Ile	Lys	Gln	Gln	Leu	Cys	Leu	Asp	Ala
225					230					235					240
Gly	Thr	Asp	Arg	Asp	Trp	Leu	Arg	Lys	Val	Arg	Pro	Trp	Phe	Gln	His
			245						250					255	
Arg	Ala	His	Met	His	Val	Arg	Leu	Arg	Cys	Pro	Ala	Asn	Ser	Leu	Glu
		260						265					270		
Cys	Glu	Asp	Gln	Pro	Leu	Pro	Pro	Gly	Asp	Gly	Cys	Gly	Tyr	Glu	
		275					280				285				
Leu	Gln	Ser	Trp	Phe	Glu	Pro	Ala	Lys	Pro	Gly	Thr	Ser	Lys	Pro	Glu
	290					295					300				
Lys	Lys	Thr	Pro	Pro	Pro	Leu	Pro	Pro	Ser	Cys	Gln	Ala	Leu	Leu	Asp

320

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<210> 7950
<211> 304
<212> PRT
<213> Enterobacter cloacae
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Ala	Gly	Ala	Val	Leu	Val	Cys	Cys	Arg	Gln	Arg	Ala	Phe	Arg	Arg	Arg
1				5					10					15	
Ala	Asp	Gly	Gly	Gln	Asn	Arg	Gly	Lys	Thr	Gly	Ala	Gly	Val	Ser	Val
			20					25					30		
Leu	Met	Ser	Asp	Val	Glu	Gln	Lys	Pro	Val	His	Arg	Ile	Ala	Leu	Gly
		35					40					45			
Ile	Glu	Tyr	Asp	Gly	Ser	Lys	Tyr	Tyr	Gly	Trp	Gln	Arg	Gln	Asn	Glu
	50					55					60				
Val	Arg	Ser	Val	Gln	Glu	Lys	Leu	Glu	Lys	Ala	Leu	Ser	Gln	Val	Ala
65				70						75					80
Asn	Glu	Pro	Ile	Ser	Val	Phe	Cys	Ala	Gly	Arg	Thr	Asp	Ala	Gly	Val
			85						90					95	
His	Gly	Thr	Gly	Gln	Val	Val	His	Phe	Asp	Thr	Thr	Ala	Val	Arg	Lys
			100					105					110		
Asp	Ala	Ala	Trp	Thr	Leu	Gly	Val	Asn	Ala	Asn	Leu	Pro	Gly	Asp	Ile
		115					120					125			
Ala	Val	Arg	Trp	Val	Lys	Ala	Val	Pro	Asp	Asp	Phe	His	Ala	Arg	Phe
		130				135					140				
Ser	Ala	Thr	Ala	Arg	Arg	Tyr	Arg	Tyr	Val	Ile	Tyr	Asn	Gln	Arg	Leu
145				150						155					160
Arg	Pro	Ala	Val	Leu	Ser	Gln	Gly	Val	Thr	His	Phe	Tyr	Glu	Pro	Leu
			165						170					175	
Asp	Ala	Glu	Arg	Met	Gln	Arg	Ala	Ala	Gln	Cys	Leu	Ile	Gly	Glu	Asn
			180					185					190		
Asp	Phe	Thr	Ser	Phe	Arg	Ala	Val	Gln	Cys	Gln	Ser	Arg	Thr	Pro	Trp
		195					200					205			
Arg	Asn	Val	Met	His	Ile	Asn	Val	Ser	Arg	Tyr	Gly	Ala	Tyr	Val	Val
	210					215					220				
Val	Asp	Ile	Lys	Ala	Asn	Ala	Phe	Val	His	His	Met	Val	Arg	Asn	Ile
225				230						235					240
Val	Gly	Ser	Leu	Met	Glu	Val	Gly	Ala	Gly	His	Gln	Pro	Glu	Ser	Trp
			245						250					255	
Ile	Ala	Glu	Leu	Leu	Ala	Ala	Lys	Asp	Arg	Thr	Leu	Ala	Ala	Ala	Thr
			260					265					270		
Ala	Lys	Ala	Glu	Gly	Leu	Tyr	Leu	Val	Ser	Val	Asp	Tyr	Pro	Asp	Arg
		275					280					285			
Phe	Asp	Leu	Pro	Lys	Pro	Pro	Met	Gly	Pro	Leu	Phe	Leu	Ala	Asp	
	290					295					300				

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<210> 7951
<211> 427
<212> PRT
<213> Enterobacter cloacae
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Gln	Pro	Gly	Ile	Met	Glu	Asn	Lys	Ser	Ile	Pro	Gln	Ala	Thr	Ser	Pro
1				5					10					15	
Leu	Ala	Ala	Trp	Leu	Ser	Tyr	Leu	Glu	Asn	Leu	His	Ser	Lys	Thr	Ile
			20					25					30		
Asp	Met	Gly	Leu	Glu	Arg	Val	Ser	Gln	Val	Ala	Ala	Arg	Leu	Asp	Val
		35					40					45			

Leu Lys Pro Ala Pro Phe Val Phe Thr Val Ala Gly Thr Asn Gly Lys
 50 55 60
 Gly Thr Thr Cys Arg Thr Leu Glu Ser Val Leu Met Ala Ala Gly Tyr
 65 70 75 80
 Lys Val Gly Val Tyr Ser Ser Pro His Leu Val Arg Tyr Thr Glu Arg
 85 90 95
 Val Arg Val Gln Asn Thr Glu Leu Ala Glu Ser Ala His Thr Ala Ser
 100 105 110
 Phe Ala Ala Ile Glu Ala Ala Arg Gly Glu Thr Ser Leu Thr Tyr Phe
 115 120 125
 Glu Tyr Gly Thr Leu Ser Ala Leu Trp Leu Phe Lys Gln Ala Gln Leu
 130 135 140
 Asp Val Val Ile Leu Glu Val Gly Leu Gly Gly Arg Leu Asp Ala Thr
 145 150 155 160
 Asn Met Val Asp Ala Asp Val Ala Val Val Thr Ser Ile Ala Leu Asp
 165 170 175
 His Thr Asp Trp Leu Gly Pro Asp Arg Glu Ser Ile Gly Arg Glu Lys
 180 185 190
 Ala Gly Ile Phe Arg Ala Asn Lys Pro Ala Val Val Gly Glu Pro Asp
 195 200 205
 Met Pro His Thr Ile Ala Glu Val Ala Lys Glu Lys Gly Ala Arg Leu
 210 215 220
 Leu Arg Arg Gly Val Asp Trp Gln Tyr Glu Val Gln Asp Asn Gly Trp
 225 230 235 240
 Arg Phe Ser Asp Ala Gln Gly Val Leu Glu Ser Leu Pro Leu Ser Gln
 245 250 255
 Val Pro Gln Pro Asn Ala Ala Thr Ala Leu Ala Ala Leu Arg Ala Ser
 260 265 270
 Gly Leu Ala Val Ser Glu Gln Ala Ile Arg Asp Gly Ile Gln Asn Ala
 275 280 285
 Leu Leu Pro Gly Arg Phe Gln Ile Val Ser Glu Ser Pro Arg Leu Ile
 290 295 300
 Leu Asp Val Ala His Asn Pro His Ala Ala Tyr Leu Ala Gly Arg
 305 310 315 320
 Leu Lys Ser Leu Pro Lys Thr Gly Arg Val Leu Ala Val Ile Gly Met
 325 330 335
 Leu His Asp Lys Asp Ile Gly Gly Thr Leu Ala Cys Met Glu Ser Val
 340 345 350
 Val Asp Ser Trp Tyr Cys Ala Pro Leu Glu Gly Pro Arg Gly Ala Thr
 355 360 365
 Ala Glu Gln Leu Met Glu His Leu Gly Lys Gly Glu Ile Tyr Ser Ser
 370 375 380
 Val Val Ser Ala Trp Arg Ala Ala Met Ala Glu Ala Lys Pro Glu Asp
 385 390 395 400
 Thr Val Leu Val Cys Gly Ser Phe His Thr Val Ala His Val Met Glu
 405 410 415
 Val Met Asp Ala Gly Arg Thr Gly Gly Glu
 420 425

<210> 7952

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 7952

Ala Met Ser Lys Cys Ser Ala Asp Glu Thr Pro Val Cys Cys Cys Met
 1 5 10 15
 Asp Val Gly Thr Ile Met Asp Asn Thr Asp Cys Thr Ala Ser Tyr Ser
 20 25 30
 Arg Val Phe Pro Asn Arg Ala Glu Ala Glu Glu Thr Leu Ala Ala Leu
 35 40 45

Ser Gln Arg Ala Arg Glu Val Glu Ser Asp Pro Cys Glu Ile Lys Ser
 50 55 60
 Thr Phe Thr Glu Val Glu Gly Gly Val Gln Leu Asp Ile Asp Phe Val
 65 70 75 80
 Phe Ala Cys Glu Ala Glu Thr Leu Ile Phe Gln Leu Gly Leu Arg
 85 90 95

<210> 7953

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 7953

Cys Ala Arg Lys Ile Phe Leu Gln Gly Ser Val Met Ser Gln Ala Leu
 1 5 10 15
 Pro Leu Ile Thr Arg His Gly Asp Arg Ile Ala Ile Ile Ser Gly Leu
 20 25 30
 Arg Thr Pro Phe Ala Arg Gln Ala Thr Ala Phe His Gly Ile Pro Ala
 35 40 45
 Val Asp Leu Gly Lys Met Val Val Gly Glu Met Leu Ala Arg Ser Glu
 50 55 60
 Ile Pro Pro Glu Val Ile Glu Gln Leu Val Phe Gly Gln Val Val Gln
 65 70 75 80
 Met Pro Glu Ala Pro Asn Ile Ala Arg Glu Ile Val Leu Gly Thr Gly
 85 90 95
 Met Asn Val His Thr Asp Ala Tyr Ser Val Ser Arg Ala Cys Ala Thr
 100 105 110
 Ser Phe Gln Ala Val Ala Asn Val Ala Glu Ser Leu Met Ala Gly Thr
 115 120 125
 Ile Arg Ala Gly Ile Ala Gly Gly Ala Asp Ser Ser Val Leu Pro
 130 135 140
 Ile Gly Val Ser Lys Gln Leu Ala Arg Ile Leu Val Asp Ala Asn Lys
 145 150 155 160
 Ala Arg Thr Thr Gly Ala Lys Leu Lys Leu Phe Ser Arg Leu Arg Leu
 165 170 175
 Arg Asp Leu Met Pro Val Pro Pro Ala Val Ala Glu Tyr Ser Thr Gly
 180 185 190
 Leu Arg Met Gly Asp Thr Ala Glu Gln Met Ala Lys Thr Tyr Gly Ile
 195 200 205
 Thr Arg Glu Gln Gln Asp Ala Leu Ala His Arg Ser His Gln Leu Ala
 210 215 220
 Ala Lys Ala Trp Ser Glu Gly Lys Leu Ala Asp Glu Val Met Thr Ala
 225 230 235 240
 Tyr Ile Pro Pro Phe Arg Glu Pro Leu Val Glu Asp Asn Asn Ile Arg
 245 250 255
 Gly Thr Ser Thr Leu Glu Asp Tyr Ala Lys Leu Arg Pro Ala Phe Asp
 260 265 270
 Arg Lys His Gly Thr Val Thr Ala Ala Asn Ser Thr Pro Leu Thr Asp
 275 280 285
 Gly Ala Ala Ala Val Ile Leu Met Thr Glu Ser Arg Ala Lys Glu Leu
 290 295 300
 Gly Ile Thr Pro Leu Gly Tyr Leu Arg Ser Tyr Ala Phe Thr Ala Ile
 305 310 315 320
 Asp Val Trp Gln Asp Met Leu Leu Gly Pro Ala Trp Ser Thr Pro Leu
 325 330 335
 Ala Leu Glu Arg Ala Gly Leu Thr Leu Ala Asp Leu Thr Leu Ile Asp
 340 345 350
 Met His Glu Ala Phe Ala Ala Gln Thr Leu Ala Asn Ile Gln Leu Leu
 355 360 365
 Ala Ser Glu Arg Phe Ala Arg Asp Val Leu Gly Arg Ala His Ala Thr
 370 375 380

Gly Glu Val Asp Gln Ser Lys Phe Asn Val Leu Gly Gly Ser Ile Ala
 385 390 395 400
 Tyr Gly His Pro Phe Ala Ala Thr Gly Ala Arg Met Ile Thr Gln Thr
 405 410 415
 Leu His Glu Leu Arg Arg Arg Gly Gly Gly Phe Gly Leu Val Thr Ala
 420 425 430
 Cys Ala Ala Gly Gly Leu Gly Ala Ala Met Val Leu Glu Ala Glu
 435 440 445

<210> 7954

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7954

Pro Gln Ala Thr Arg Val Ile Ala Asp Leu Ser Pro Ser Ser Trp Gln
 1 5 10 15
 Thr Ser Arg Arg Lys Leu Cys Glu His Ala Leu Glu Glu Arg Val Asp
 20 25 30
 Lys Ile Phe Val Asp Glu Ala Val Asn Glu Leu His Thr Ile Gln Asp
 35 40 45
 Met Leu Arg Trp Ser Val Ser Arg Phe Ser Ala Ala Asn Ile Trp Tyr
 50 55 60
 Gly His Gly Thr Asp Asn Pro Trp Asp Glu Ala Val Gln Leu Val Leu
 65 70 75 80
 Pro Ser Leu Tyr Leu Pro Leu Asp Ile Pro Glu Asp Met Arg Thr Ala
 85 90 95
 Arg Leu Thr Ser Ser Glu Lys His Arg Ile Val Glu Arg Val Ile Arg
 100 105 110
 Arg Val Asn Glu Arg Ile Pro Val Ala Tyr Leu Thr Asn Lys Ala Trp
 115 120 125
 Phe Cys Gly His Glu Phe Tyr Val Asp Glu Arg Val Leu Val Pro Arg
 130 135 140
 Ser Pro Ile Gly Glu Leu Ile Asn Asn His Phe Asp Gly Leu Ile Asn
 145 150 155 160
 His Gln Pro Gln His Ile Leu Asp Met Cys Thr Gly Ser Gly Cys Ile
 165 170 175
 Ala Ile Ala Cys Ala Tyr Ala Phe Pro Glu Ala Glu Val Asp Ala Val
 180 185 190
 Asp Ile Ser Thr Asp Ala Leu Ala Val Thr Glu His Asn Ile Glu Glu
 195 200 205
 His Gly Leu Ile His His Val Thr Pro Ile Arg Ser Asp Leu Phe Arg
 210 215 220
 Asp Leu Pro Thr Leu Gln Tyr Asp Leu Ile Val Thr Asn Pro Pro Tyr
 225 230 235 240
 Val Asp Ala Glu Asp Met Ser Asp Leu Pro Asn Glu Tyr Arg His Glu
 245 250 255
 Pro Glu Leu Gly Leu Ala Ser Gly Ser Asp Gly Leu Lys Leu Thr Arg
 260 265 270
 Arg Ile Leu Ala Cys Ala Pro Asp Tyr Leu Thr Asp Asp Gly Val Leu
 275 280 285
 Ile Cys Glu Val Gly Asn Ser Met Val His Leu Ile Glu Gln Tyr Pro
 290 295 300
 Asp Val Pro Phe Thr Trp Leu Glu Phe Asp Asn Gly Gly Asp Gly Val
 305 310 315 320
 Phe Met Leu Thr Lys Ala Gln Leu Leu Asp Ala Arg Glu Tyr Phe Ser
 325 330 335
 Ile Tyr Lys Asp
 340

<210> 7955

<211> 382
 <212> PRT
 <213> Enterobacter cloacae

<400> 7955

Ser	Ser	Gly	Leu	Arg	Pro	Val	Ser	Gln	Arg	Ser	Asn	Thr	Asn	Asn	Asn
1				5					10					15	
Ile	Gly	Ala	Val	Met	Ala	Gly	Asn	Ser	Ile	Gly	Gln	Val	Phe	Arg	Val
		20					25						30		
Thr	Thr	Phe	Gly	Glu	Ser	His	Gly	Leu	Ala	Leu	Gly	Cys	Ile	Val	Asp
		35					40					45			
Gly	Val	Pro	Pro	Gly	Ile	Glu	Leu	Thr	Glu	Ala	Asp	Leu	Gln	His	Asp
	50					55					60				
Leu	Asp	Arg	Arg	Arg	Pro	Gly	Thr	Ser	Arg	Tyr	Thr	Thr	Gln	Arg	Arg
65					70					75					80
Glu	Pro	Asp	Gln	Val	Lys	Ile	Leu	Ser	Gly	Val	Phe	Glu	Gly	Arg	Thr
			85						90					95	
Thr	Gly	Thr	Ser	Ile	Gly	Leu	Leu	Ile	Glu	Asn	Thr	Asp	Gln	Arg	Ser
			100					105					110		
Gln	Asp	Tyr	Gly	Ala	Ile	Lys	Asp	Val	Phe	Arg	Pro	Gly	His	Ala	Asp
		115					120					125			
Tyr	Thr	Tyr	Glu	Gln	Lys	Tyr	Gly	Phe	Arg	Asp	Tyr	Arg	Gly	Gly	Gly
	130					135					140				
Arg	Ser	Ser	Ala	Arg	Glu	Thr	Ala	Met	Arg	Val	Ala	Ala	Gly	Ala	Ile
145					150					155					160
Ala	Lys	Lys	Tyr	Leu	Gln	Gln	Lys	Phe	Gly	Ile	Val	Ile	Arg	Gly	Cys
			165						170					175	
Leu	Thr	Gln	Met	Gly	Asp	Ile	Pro	Leu	Ala	Ile	Lys	Asp	Trp	Glu	Gln
			180					185					190		
Val	Glu	Leu	Asn	Pro	Phe	Phe	Cys	Ala	Asp	Ala	Asp	Lys	Leu	Asp	Ala
		195					200					205			
Leu	Asp	Glu	Leu	Met	Arg	Gly	Leu	Lys	Lys	Glu	Gly	Asp	Ser	Ile	Gly
	210					215					220				
Ala	Lys	Val	Thr	Val	Val	Ala	Asp	Gly	Val	Pro	Ala	Gly	Trp	Gly	Glu
225					230					235					240
Pro	Val	Phe	Asp	Arg	Leu	Asp	Ala	Asp	Ile	Ala	His	Ala	Leu	Met	Ser
			245						250					255	
Ile	Asn	Ala	Val	Lys	Gly	Val	Glu	Ile	Gly	Asp	Gly	Phe	Asp	Val	Val
			260					265					270		
Lys	Leu	Arg	Gly	Ser	Gln	Asn	Arg	Asp	Glu	Ile	Thr	Lys	Ala	Gly	Phe
		275				280						285			
Gln	Ser	Asn	His	Ala	Gly	Gly	Ile	Leu	Gly	Gly	Ile	Ser	Ser	Gly	Gln
		290				295					300				
Gln	Ile	Ile	Ala	Asn	Ile	Ala	Leu	Lys	Pro	Thr	Ser	Ser	Ile	Thr	Val
305					310					315					320
Pro	Gly	His	Thr	Ile	Asn	Arg	Ala	Gly	Asp	Glu	Val	Glu	Met	Ile	Thr
			325						330					335	
Lys	Gly	Arg	His	Asp	Pro	Cys	Val	Gly	Ile	Arg	Ala	Val	Pro	Ile	Ala
			340					345					350		
Glu	Ala	Met	Leu	Ala	Ile	Val	Leu	Met	Asp	His	Phe	Leu	Arg	Gln	Arg
		355					360					365			
Ala	Gln	Asn	Ala	Asp	Val	Thr	Thr	Thr	Ile	Pro	Arg	Trp			
	370					375					380				

<210> 7956
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 7956

Ser Cys Glu Ser Arg Arg Ser Glu Ala Gln Tyr Pro Asp Asp Val Tyr

```

1           5           10           15
Trp Leu Asn Gly Gly Arg Ala Ala Gly Pro Ala Arg Thr Val Arg His
20           25           30
Ser Ala Pro Asp Pro Ala Ala Ala Gly Tyr Leu Tyr Arg Pro Leu Phe
35           40           45
Leu Thr His Ala Lys Ala Arg Gly Arg Arg Ser Thr Ala Ser Pro Ser
50           55           60
Arg Pro Ala Val Cys Ala Asp Arg Arg Trp Leu Arg Arg Phe Leu Arg
65           70           75           80
Trp Leu Leu Trp Pro Gly Gly Arg Leu Val Leu Arg Ala Gly Ile Arg
85           90           95
Asp Ala Gly Arg Val Gln Pro Arg Gln Ile His Arg Pro Arg Gln Ser
100          105          110
Pro Gln Arg Asp Leu Gln Arg Trp Arg Ser Ala Ala Val Tyr His Trp
115          120          125
Arg Gln Gly Tyr Leu Gly Asn Arg Val Cys Asp Asp Gly Arg Ala Val
130          135          140
Phe Gly Arg Ala Arg Arg Leu Ala Ser Gly Ile Lys Gln Arg Ala Lys
145          150          155          160
Ala Asp Pro Pro Asp Cys Cys Arg Leu Gly Gly Asp Glu Arg Gln
165          170          175
Thr Ser Leu
180

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<210> 7957

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 7957

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Gln Pro Trp Thr Gly Asp Pro His Leu Val Gly Asp Glu Leu Met Asn
1           5           10           15
Ser Thr His Asn Tyr Glu Gln Leu Ile Glu Ile Phe Asp Ser Cys Phe
20           25           30
Ala Asp Asp Phe Asn Thr Arg Leu Ile Lys Gly Asp Asp Glu Pro Ile
35           40           45
Tyr Leu Pro Ala Asp Asp Glu Val Pro Tyr Asn Arg Ile Ile Phe Ala
50           55           60
His Gly Phe Tyr Ala Ser Gly Leu His Glu Ile Ser His Trp Cys Ile
65           70           75           80
Ala Gly Lys Ala Arg Arg Glu Leu Val Asp Phe Gly Tyr Trp Tyr Cys
85           90           95
Pro Asp Gly Arg Asp Ala Ala Thr Gln Gly Gln Phe Glu Asp Val Glu
100          105          110
Val Lys Pro Gln Ala Leu Glu Trp Leu Phe Cys Val Ala Ala Gly Phe
115          120          125
Pro Phe Asn Val Ser Cys Asp Asn Leu Glu Gly Asp Phe Glu Pro Asp
130          135          140
Arg Ile Val Phe Gln Arg Arg Val His Ala Gln Val Met Glu Tyr Leu
145          150          155          160
Glu Lys Gly Ile Pro Ala Arg Pro Ala Arg Leu Ile Glu Ala Leu Gln
165          170          175
Asn Tyr Tyr His Thr Pro Glu Ile Thr Ala Glu Arg Phe Pro Trp Pro
180          185          190
Glu Asp Leu
195

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<210> 7958

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 7958

Arg Tyr Ser Arg Arg Glu Pro Arg Gly Ser Leu Phe Leu Cys Leu Asn
 1 5 10 15
 Thr Glu Leu Cys Met Lys Ala Val Thr Pro Glu Lys Ser Ala Pro Ser
 20 25 30
 Gly Asn Leu Ser Leu Phe Arg Ile Ala Phe Ala Val Phe Leu Thr Tyr
 35 40 45
 Met Thr Val Gly Leu Pro Leu Pro Val Ile Pro Leu Phe Val His Gln
 50 55 60
 Glu Leu Gly Tyr Gly Asn Thr Met Val Gly Ile Ala Val Gly Ile Gln
 65 70 75 80
 Phe Leu Ala Thr Val Leu Thr Arg Gly Tyr Ala Gly Arg Leu Ala Asp
 85 90 95
 Gln His Gly Ala Lys Arg Ser Ala Leu Gln Gly Met Phe Ala Cys Gly
 100 105 110
 Leu Ala Gly Gly Ala Trp Leu Leu Ala Ala Leu Leu Pro Ile Asp Ala
 115 120 125
 Ala Tyr Lys Phe Ala Leu Leu Val Val Gly Arg Leu Ile Leu Gly Phe
 130 135 140
 Gly Glu Ser Gln Leu Leu Thr Gly Thr Leu Thr Trp Gly Met Gly Leu
 145 150 155 160
 Val Gly Pro Ala Arg Ser Gly Lys Val Met Ser Trp Asn Gly Met Ala
 165 170 175
 Ile Tyr Gly Ala Leu Ala Ala Gly Ala Pro Leu Gly Leu Leu Ile His
 180 185 190
 Ser Gln Phe Gly Phe Ala Ala Leu Ala Gly Thr Thr Met Val Leu Pro
 195 200 205
 Leu Leu Ala Trp Ala Phe Asn Gly Ser Val Arg Lys Val Pro Ala His
 210 215 220
 Lys Gly Glu Arg Pro Ser Leu Trp Ser Val Val Gly Gln Ile Trp Gln
 225 230 235 240
 Pro Gly Leu Gly Leu Ala Leu Gln Gly Val Gly Phe Ala Val Ile Gly
 245 250 255
 Thr Phe Val Ser Leu Tyr Phe Met Ser Arg Gly Trp Ala Met Ala Gly
 260 265 270
 Phe Thr Leu Thr Ala Phe Gly Gly Ala Phe Val Leu Met Arg Val Leu
 275 280 285
 Phe Gly Trp Met Leu Asp Arg Phe Gly Gly Val Lys Val Ala Val Ser
 290 295 300
 Ser Leu Val Ile Glu Thr Val Gly Leu Val Leu Leu Trp Gln Ala Pro
 305 310 315 320
 Ser Ala Ser Val Ala Leu Leu Gly Ala Ala Leu Thr Gly Cys Gly Cys
 325 330 335
 Ser Leu Ile Phe Pro Ala Leu Gly Val Glu Val Val Lys Arg Val Ala
 340 345 350
 Pro Gln Val Arg Gly Thr Ala Leu Gly Gly Tyr Ala Ala Phe Gln Asp
 355 360 365
 Ile Ser Tyr Gly Ile Thr Gly Pro Leu Ala Gly Leu Leu Ala Thr Ser
 370 375 380
 Phe Gly Tyr Pro Ser Val Phe Leu Ala Gly Ala Val Ser Ala Val Val
 385 390 395 400
 Gly Ile Val Val Thr Met Val Ala Phe Arg Lys Arg
 405 410

<210> 7959

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 7959

Val Tyr Phe Leu Ser Asn Arg Tyr Ser Asp Val Lys Ile Leu Val Asp
 1 5 10 15
 Glu Asn Met Pro Tyr Ala Arg Glu Leu Phe Ser Arg Leu Gly Glu Val
 20 25 30
 Lys Ala Val Pro Gly Arg Pro Ile Pro Val Ser Glu Leu Asp Asp Ala
 35 40 45
 Asp Ala Leu Met Val Arg Ser Val Thr Lys Val Asn Glu Ala Leu Leu
 50 55 60
 Thr Gly Lys Gly Val Lys Phe Val Gly Thr Ala Thr Ala Gly Thr Asp
 65 70 75 80
 His Val Asp Asp Gln Trp Leu Lys Gln Ala Gly Ile Gly Phe Ser Ala
 85 90 95
 Ala Pro Gly Cys Asn Ala Ile Ala Val Val Glu Tyr Val Phe Ser Ser
 100 105 110
 Leu Leu Met Leu Ala Glu Arg Asp Gly Phe Thr Leu Lys Asp Arg Thr
 115 120 125
 Val Gly Ile Val Gly Val Gly Asn Val Gly Gly Arg Leu Gln Lys Arg
 130 135 140
 Leu Glu Ala Trp Gly Ile Ser Thr Leu Leu Cys Asp Pro Pro Arg Lys
 145 150 155 160
 Asp Asn Gly Asp Glu Gly Asp Phe Arg Thr Leu Asp Glu Leu Val Asp
 165 170 175
 Glu Cys Asp Val Ile Thr Phe His Thr Pro Leu Phe Lys Glu Gly Pro
 180 185 190
 Tyr Lys Thr Leu His Leu Ala Asp Glu Lys Leu Ile Arg Arg Leu Lys
 195 200 205
 Ala Gly Thr Ile Leu Ile Asn Ala Cys Arg Gly Pro Val Val Asp Asn
 210 215 220
 Ala Ala Leu Leu Ala Cys Leu Asp Glu Gly Gln Glu Leu Ser Val Val
 225 230 235 240
 Leu Asp Val Trp Glu Pro Glu Pro Asp Leu Asn Val Ala Leu Leu Asp
 245 250 255
 Lys Val Asp Val Gly Thr Ala His Ile Ala Gly Tyr Thr Leu Glu Gly
 260 265 270
 Lys Ala Arg Gly Thr Thr Gln Val Phe Glu Ala Tyr Ser Ala Phe Ile
 275 280 285
 Gly His Pro Gln Gln Val Ala Leu Asp Thr Leu Leu Pro Ala Pro Glu
 290 295 300
 Phe Gly Arg Ile Thr Leu His Gly Leu Leu Asp Glu Ala Thr Leu Lys
 305 310 315 320
 Arg Leu Val His Leu Val Tyr Asp Val Arg Arg Asp Asp Ala Leu Leu
 325 330 335
 Arg Lys Val Ala Gly Ile Pro Gly Glu Phe Asp Lys Leu Arg Lys Asn
 340 345 350
 Tyr Leu Glu Arg Arg Glu Trp Ser Ser Leu Tyr Val Met Cys Asp Asp
 355 360 365
 Ala Ser Ala Ala Gly Leu Leu His Lys Leu Gly Phe Asn Ala Val His
 370 375 380
 His Pro Ala Arg
 385

<210> 7960

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7960

Thr Thr Met Ser Glu Gly Trp Asn Ile Ala Ile Leu Gly Ala Thr Gly
 1 5 10 15
 Ala Val Gly Glu Ala Leu Leu Glu Thr Leu Ala Glu Arg Gln Phe Pro
 20 25 30

Val Gly Glu Ile Tyr Ala Leu Ala Arg Thr Asp Ser Ala Gly Glu Gln
 35 40 45
 Leu Arg Phe Gly Gly Lys Ser Leu Met Val Gln Asp Ala Ala Ala Phe
 50 55 60
 Asp Trp Thr Gln Ala Gln Leu Ala Phe Phe Ala Ala Gly Ala Gln Ala
 65 70 75 80
 Thr Ala Ser Tyr Ile Glu Glu Ala Thr Asn Ser Gly Cys Leu Val Ile
 85 90 95
 Asp Leu Ser Gly Leu Phe Ser Leu Glu Pro Asp Val Ser Leu Val Val
 100 105 110
 Pro Asp Val Asn Pro Phe Val Leu Ala Asp Tyr Arg Asn Arg Asn Ile
 115 120 125
 Ile Ala Val Pro Asn Ser Leu Thr Ser Gln Leu Leu Thr Ala Leu Lys
 130 135 140
 Pro Leu Ile Asp Asp Gly Gly Leu Ser Arg Ile Ser Val Thr Ser Leu
 145 150 155 160
 Leu Ser Ala Ser Ala Asn Gly Lys Lys Ala Val Asp Ala Leu Ala Gly
 165 170 175
 Gln Ser Ala Lys Leu Leu Asn Gly Ile Pro Ile Asp Glu Asp Asp Phe
 180 185 190
 Phe Gly Arg Gln Leu Ala Phe Asn Met Leu Pro Leu Leu Pro Asp Arg
 195 200 205
 Glu Gly Ser Val Arg Glu Glu Arg Arg Ile Val Asp Glu Ala Arg Lys
 210 215 220
 Ile Leu Gln Asp Asp Gly Leu Met Ile Ser Ala Asn Val Val Gln Ser
 225 230 235 240
 Pro Val Phe Tyr Gly His Ala Gln Met Val Gly Phe Glu Ala Leu Arg
 245 250 255
 Pro Leu Ala Ala Glu Glu Ala Arg Asp Ala Phe Gly Arg Gly Glu Asp
 260 265 270
 Ile Val Leu Ser Glu Glu Ser Glu Phe Pro Thr Gln Val Gly Asp Ala
 275 280 285
 Thr Gly Ser Ala His Leu Ser Val Gly Cys Val Arg Asn Asp Tyr Gly
 290 295 300
 Met Pro Glu Gln Val Gln Phe Trp Ser Val Ala Asp Asn Val Arg Phe
 305 310 315 320
 Gly Gly Ala Leu Met Ala Val Lys Ile Ala Glu Lys Leu Val Gln Glu
 325 330 335
 Tyr Leu Tyr
 340

<210> 7961

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7961

Gly Leu Asp Asn Met Asp Val Ile Arg Phe Leu Ile Asp Phe Ile Leu
 1 5 10 15
 His Ile Asp Val His Leu Ala Glu Leu Val Ala Gln Tyr Gly Val Trp
 20 25 30
 Val Tyr Ala Ile Leu Phe Leu Ile Leu Phe Cys Glu Thr Gly Leu Val
 35 40 45
 Val Thr Pro Phe Leu Pro Gly Asp Ser Leu Leu Phe Val Ala Gly Ala
 50 55 60
 Leu Ser Ala Leu Pro Thr Asn Asp Leu Asn Val His Leu Met Val Val
 65 70 75 80
 Leu Met Ile Ile Ala Ala Ile Val Gly Asp Ala Val Asn Tyr Thr Ile
 85 90 95
 Gly Arg Val Phe Gly Glu Arg Leu Phe Ser Asn Pro Asp Ser Lys Ile
 100 105 110


```

Phe Arg Arg Ser Tyr Leu Asp Lys Thr His Ala Phe Tyr Glu Arg His
    115      120      125
Gly Gly Lys Thr Ile Ile Leu Ala Arg Phe Val Pro Ile Val Arg Thr
    130      135      140
Phe Ala Pro Phe Val Ala Gly Met Gly His Met Ser Tyr Arg His Phe
145      150      155      160
Ala Met Tyr Asn Val Val Gly Ala Leu Leu Trp Val Leu Leu Phe Thr
    165      170      175
Tyr Ala Gly Tyr Leu Phe Gly Asp Leu Pro Val Val Gln Glu Asn Leu
    180      185      190
Lys Leu Leu Ile Val Ala Ile Ile Val Leu Ser Val Leu Pro Gly Val
    195      200      205
Ile Glu Ile Ile Arg His Lys Arg Ala Ala Ala Lys Gln Ala Lys
    210      215      220

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<210> 7962

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 7962

```

Trp Thr Arg Gly Glu Pro Val Ala Ser Lys Phe Gln Asn Arg Leu Thr
1      5      10      15
Gly Thr Ile Val Leu Val Ala Leu Gly Val Ile Ile Leu Pro Gly Leu
    20      25      30
Leu Asp Gly Gln Lys Lys His Tyr Gln Asp Glu Phe Ala Ala Ile Pro
    35      40      45
Leu Val Pro Lys Pro Gly Asp Arg Asp Glu Pro Asp Met Leu Pro Ala
    50      55      60
Ala Thr Gln Ala Leu Pro Ala Gln Pro Pro Glu Gly Ala Ala Glu Glu
65      70      75      80
Val Arg Ala Gly Asp Ala Ala Ala Pro Ser Leu Asp Pro Ser Arg Leu
    85      90      95
Ala Thr Asn Asn His Ile Leu His Gln Gly Ser Cys Arg Ser Ala Ser
    100      105      110
His

```

<210> 7963

<211> 257

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (252)

<400> 7963

```

Val Lys Asp Tyr Met Val Ala Arg Thr Ser Arg Lys Glu Arg Phe Ser
1      5      10      15
Met Phe Arg Asp Arg Pro Leu Lys Arg Met Lys Ser Pro Arg Asp Glu
    20      25      30
Asp Asp Val Glu Asp Asp Ile Asp Gly Leu Asp Asp Asp Gly Val Gly
    35      40      45
Glu Val Arg Val His Arg Val Asn Thr Ala Pro Gly Ala Ala His Gly
    50      55      60
Glu His Glu Ala Pro Arg Ala Pro Gln His Gln Tyr Gln Pro Pro Tyr
65      70      75      80
Ala Ser Ala Gln Pro Arg Gln Pro Ala Pro Pro Pro Val Glu Glu Pro
    85      90      95
Val Arg His Pro Pro His Gln Pro Val Gln Gln Gln Pro Val Ala Pro

```

```
<210> 7964
<211> 271
<212> PRT
<213> Enterobacter cloacae
```

Ile 1	Pro	Pro	Ala	Val 5	Thr	Ile	Ser	Ser	Gly 10	Arg	Phe	Met	His	Ala 15	Asp
Arg	Ser	Thr	Gln 20	Arg	Ala	Thr	Thr	Arg 25	Leu	Cys	Ile	Gln 30	Cys	Gly	Leu
Phe	Leu	Leu 35	Gln	His	Gly	Ala	Glu 40	Ser	Ala	Leu	Val	Glu 45	Glu	Leu	Ser
Thr	Arg 50	Leu	Gly	Leu	Ala	Leu 55	Gly	Met	Asp	Ser	Val 60	Glu	Ser	Ser	Ile
Ser 65	Ser	Asn	Ala	Ile 70	Val	Leu	Thr	Thr	Ile	Lys 75	Asp	Gly	Gln	Cys	Leu 80
Thr	Ser	Thr	Arg	Lys 85	Asn	His	Asp	Arg	Gly 90	Ile	Asn	Met	His	Val 95	Val
Thr	Glu	Val	Gln 100	His	Ile	Val	Ile	Leu 105	Ala	Glu	His	Arg	Leu 110	Leu	Asp
Leu	Arg	Glu 115	Ile	Glu	Lys	Arg	Phe 120	Asn	Gln	Ile	Lys	Pro 125	Leu	Arg	Tyr
Pro	Arg 130	Trp	Leu	Val	Val	Leu 135	Met	Val	Gly	Leu	Ser	Cys 140	Ala	Cys	Phe
Cys 145	Lys	Leu	Asn	Ala 150	Gly	Gly	Trp	Asp	Gly	Ala 155	Val	Val	Thr	Phe	Phe 160
Ala	Ser	Ser	Ile 165	Ala	Met	Tyr	Val	Arg	Gln 170	Leu	Leu	Thr	His	Arg 175	Gln
Leu	His	Pro	Gln 180	Ile	Asn	Phe	Cys	Ile 185	Thr	Ala	Phe	Val	Ala 190	Thr	Thr
Val	Ser	Gly 195	Leu	Leu	Leu	Arg	Gln 200	Pro	Tyr	Phe	Ala	Ser 205	Thr	Pro	Thr
Val	Ala 210	Met	Ala	Ala	Ser	Val 215	Leu	Leu	Leu	Val	Pro 220	Gly	Phe	Pro	Leu
Ile 225	Asn	Ala	Val	Ala 230	Asp	Met	Phe	Lys	Gly	His 235	Ile	Asn	Thr	Gly	Leu 240
Ala	Arg	Trp	Ala 245	Ile	Ala	Ser	Leu	Leu	Thr 250	Leu	Ala	Thr	Cys	Ile 255	Gly
Val	Val	Met	Ala	Met	Thr	Leu	Trp	Gly	Leu	Arg	Gly	Trp	Ala		


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<210> 7966
<211> 110
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 7967
<211> 114
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 7968
<211> 163
<212> PRT
<213> Enterobacter cloacae
```

Leu Ala Ile Val Ser Arg Thr Ile Tyr Ile His Phe Met Asp Ala Lys

1 5 10 15
 Met Asn Asp Thr Thr Asn Ala Leu Leu Leu Asp Asn Gln Leu Cys Phe
 20 25 30
 Ala Leu Tyr Ser Ala Asn Leu Ala Leu Asn Lys Leu Tyr Arg Gln Leu
 35 40 45
 Leu Ala Pro Leu Asn Leu Thr Tyr Pro Gln Tyr Leu Val Met Leu Val
 50 55 60
 Leu Trp Glu Gln Asp Asp Ile Thr Val Ser Asp Ile Gly Glu Arg Leu
 65 70 75 80
 Phe Leu Asp Ser Ala Thr Leu Thr Pro Leu Leu Lys Arg Leu Glu Ser
 85 90 95
 Ala Gly Leu Ile Phe Arg Gln Arg Ser Arg Gln Asp Glu Arg Gln Val
 100 105 110
 Ala Val Thr Leu Ser Asp Ala Gly Arg Ala Leu Gln Gln Gln Ala Val
 115 120 125
 Thr Ile Pro His Ala Val Gly Cys Ala Ala Gln Cys Asp Thr Asp Thr
 130 135 140
 Met Leu Ala Leu Lys His Gln Leu Glu Leu Leu Arg Gln Gln Leu His
 145 150 155 160
 Arg Ala

<210> 7969

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 7969

Asp Glu Glu Pro Ala Met Ser Leu Glu Lys Val Val Tyr Thr Ala Lys
 1 5 10 15
 Ala Lys Ala Thr Gly Gly Arg Asp Gly Arg Ala Thr Ser Ser Asp Gly
 20 25 30
 Val Leu Asp Val Lys Leu Gly Val Pro Lys Glu Met Gly Gly Met Gly
 35 40 45
 Gly Glu Val Thr Asn Pro Glu Gln Leu Phe Ala Ala Gly Tyr Ser Ala
 50 55 60
 Cys Phe Leu Gly Ala Met Lys Phe Val Ala Ala Arg Asp Lys Phe Ala
 65 70 75 80
 Leu Pro Lys Asp Ala Phe Ile Glu Gly Glu Val Gly Ile Gly Pro Leu
 85 90 95
 Pro Thr Gly Phe Gly Ile Glu Ala Lys Leu Asn Ile His Val Glu Gly
 100 105 110
 Met Asp Ala Ala Glu Ala Lys Lys Leu Val Asp Ala Ala His Ile Val
 115 120 125
 Cys Pro Tyr Ser Asn Ala Thr Arg Gly Asn Ile Asp Val Thr Leu Asn
 130 135 140
 Ile Ile Ala
 145

<210> 7970

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 7970

Trp Ile Pro Arg Cys Glu Met Lys Asn Val Gly Asp Leu Met Lys Arg
 1 5 10 15
 Leu Gln Lys Met Met Pro Ala Asn Val Lys Pro Ala Phe Thr Thr Gly
 20 25 30
 Glu Glu Leu Leu Ala Trp Gln Lys Glu Gln Gly Lys Ile Arg Ala Ala
 35 40 45

Ala	Leu	Ala	Arg	Glu	Asn	Arg	Ala	Met	Lys	Met	Gln	Arg	Thr	Phe	Asn
50						55					60				
Arg	Ser	Gly	Ile	Arg	Pro	Leu	His	Gln	Asn	Cys	Ser	Phe	Glu	Asn	Tyr
65					70					75					80
Lys	Val	Glu	Ser	Gln	Gly	Gln	Met	Asn	Ala	Leu	Asn	Gln	Ala	Arg	Gln
				85					90					95	
Tyr	Val	Asp	Glu	Phe	Asp	Gly	Asn	Ile	Ala	Ser	Phe	Ile	Phe	Ser	Gly
			100					105					110		
Lys	Pro	Gly	Thr	Gly	Lys	Asn	His	Leu	Ala	Ala	Ala	Ile	Cys	Asn	Glu
		115					120					125			
Leu	Leu	Leu	Arg	Gly	Lys	Ser	Val	Leu	Ile	Ile	Thr	Val	Ala	Asp	Ile
	130						135				140				
Met	Ser	Ala	Met	Lys	Asp	Thr	Phe	Ser	Asn	Arg	Glu	Thr	Ser	Glu	Glu
145					150					155					160
Gln	Leu	Leu	Asn	Asp	Leu	Ser	Asn	Val	Asp	Leu	Leu	Val	Ile	Asp	Glu
			165						170					175	
Ile	Gly	Val	Gln	Thr	Glu	Ser	Arg	Tyr	Glu	Lys	Val	Ile	Ile	Asn	Gln
			180					185					190		
Ile	Val	Asp	Arg	Arg	Ser	Ser	Ser	Lys	Arg	Pro	Thr	Gly	Met	Leu	Thr
		195					200					205			
Asn	His	Asn	Ile	Asp	Glu	Met	Thr	Arg	Leu	Leu	Gly	Glu	Arg	Val	Met
	210					215					220				
Asp	Arg	Met	Lys	Leu	Gly	Asn	Ser	Leu	Tyr	Val	Ile	Phe	Asp	Trp	Asp
225					230					235					240
Ser	Tyr	Arg	Ser	Arg	Val	Thr	Gly	Lys	Glu	Tyr					
				245					250						

<210> 7971

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 7971

Ile	Ile	Met	Lys	Lys	Gln	Phe	Leu	Ile	Ser	Ile	Leu	Thr	Gly	Thr	Leu
1				5					10					15	
Leu	Val	Thr	Gly	Ala	Ala	Gln	Ala	Ala	Ser	Trp	Gln	Glu	Ser	Leu	Ser
			20					25					30		
Ser	Ala	Ala	Ser	Glu	Leu	Thr	Lys	Glu	Ser	Gly	Thr	Ser	Gln	Gly	Gly
		35					40				45				
Leu	Ser	Ala	Ser	Ser	Leu	Thr	Gly	Leu	Leu	Ser	Asn	Ser	Ser	Gln	Ser
	50					55					60				
Leu	Ser	Ala	Gly	Thr	Met	Asn	Asn	Ala	Ala	Gly	Ile	Leu	Glu	Tyr	Cys
65					70					75					80
Ala	Lys	Gln	Lys	Leu	Ala	Ser	Val	Thr	Asp	Thr	Glu	Asn	Ile	Lys	Asn
			85						90					95	
Gln	Val	Leu	Gly	Lys	Leu	Gly	Leu	Asp	Thr	Gln	Glu	Gln	Lys	Ala	Asp
			100					105					110		
Thr	Asn	Tyr	Met	Asp	Gly	Ile	Gln	Gly	Leu	Leu	Asn	Ala	Gln	Asn	Gly
		115					120					125			
Gln	Gln	Leu	Asn	Leu	Ser	Thr	Leu	Gly	Asn	Ser	Ser	Leu	Ala	Lys	Gln
		130				135					140				
Val	Lys	Thr	Lys	Ala	Cys	Asp	Leu	Val	Leu	Lys	Gln	Gly	Val	Asn	Phe
145					150					155					160
Leu	Ser														

<210> 7972

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7972

Asn	Cys	Glu	Gln	Arg	Trp	Leu	Met	Thr	Ala	Phe	Thr	Leu	Arg	Pro	Thr
1				5					10					15	
Arg	Ile	Asp	Asp	Val	Ala	Ala	Leu	Pro	Ala	Ile	Glu	Arg	Ala	Ala	Gly
			20					25					30		
Gln	Arg	Phe	Arg	Asp	Val	Pro	Glu	Leu	Ala	Trp	Leu	Ala	Asp	Asn	Glu
		35					40					45			
Val	Ile	Cys	Val	Glu	Asp	His	Leu	Gly	Tyr	Ala	Gly	Arg	Gly	Leu	Ser
	50					55					60				
Trp	Leu	Ala	Leu	Ala	Asp	Asp	Arg	Pro	Val	Gly	Phe	Ile	Leu	Ala	Glu
65					70					75					80
Ala	His	Pro	Ser	Ser	Leu	Phe	Ile	Val	Glu	Leu	Ser	Val	His	Leu	Asp
				85					90					95	
Trp	Gln	Gly	Arg	Gly	Leu	Gly	Arg	Gln	Leu	Ile	Ala	Arg	Ala	Val	Ala
			100					105						110	
His	Ala	Arg	Ser	Leu	Gly	Leu	Asn	Ser	Leu	Thr	Leu	Thr	Thr	Phe	Arg
			115				120					125			
Asp	Val	Pro	Trp	Asn	Ala	Pro	Phe	Tyr	Arg	Arg	Leu	Gly	Phe	Glu	Met
	130					135					140				
Leu	Thr	Thr	Leu	Thr	Pro	Glu	Leu	Arg	Gln	Lys	Arg	Glu	Glu	Glu	Thr
145					150					155					160
Ala	His	Gly	Leu	Ala	Tyr	Gly	Ser	Arg	Cys	Ala	Met	Arg	Leu	Pro	Leu
				165					170					175	

<210> 7973

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 7973

Asn	Gln	Asn	Arg	Thr	Ala	Gly	Leu	Arg	Ser	Met	Gly	Met	Lys	Gly	Thr
1				5					10					15	
Val	Phe	Ala	Val	Ala	Leu	Asn	His	Gln	Ser	Gln	Arg	Ala	Ala	Trp	Ala
			20					25					30		
Glu	Ala	Phe	Glu	Lys	Ala	Pro	Tyr	Asn	Ala	Pro	Pro	Lys	Thr	Ala	Val
		35					40					45			
Trp	Phe	Ile	Lys	Pro	His	Asn	Thr	Val	Ile	Arg	Ala	Gly	Glu	Pro	Ile
	50					55					60				
Pro	Phe	Pro	Gln	Gly	Glu	Thr	Val	Leu	Ser	Gly	Ala	Thr	Val	Ala	Leu
65					70					75					80
Val	Val	Gly	Lys	Thr	Ala	Ser	Lys	Val	Arg	Val	Glu	Glu	Ala	Ala	Ala
				85					90					95	
Tyr	Ile	Ala	Gly	Tyr	Ala	Leu	Ala	Asn	Glu	Ile	Ser	Leu	Pro	Glu	Glu
			100					105					110		
Ser	Phe	Tyr	Arg	Pro	Ala	Ile	Lys	Ala	Lys	Cys	Arg	Asp	Gly	Phe	Cys
			115				120					125			
Pro	Leu	Gly	Glu	Pro	Val	Ala	Val	Asp	Asn	Val	Asp	Asn	Leu	Thr	Ile
		130				135					140				
Ile	Thr	Glu	Ile	Asn	Gly	Arg	Glu	Ala	Asp	His	Trp	Asn	Thr	Ala	Asp
145					150					155					160
Leu	His	Arg	Asn	Ala	Ala	Glu	Leu	Leu	Ser	Ala	Leu	Ser	Glu	Phe	Ala
				165					170					175	
Thr	Leu	Asn	Pro	Gly	Asp	Ala	Ile	Leu	Leu	Gly	Thr	Pro	Gln	Ser	Arg
			180					185					190		
Val	Glu	Ile	Arg	Pro	Gly	Asp	Arg	Val	Arg	Ile	Leu	Ala	Glu	Gly	Phe
		195					200					205			
Pro	Pro	Leu	Glu	Asn	Pro	Val	Val	Val	Glu	Arg	Asp	Val	Thr	Ile	Ala
		210				215					220				
Ser	Arg	Thr	Pro	Pro	His	Ala	Thr	Leu	Phe	Ala	Leu	Gly	Leu	Asn	Tyr

225					230					235				240
Ala	Asp	His	Ala	Ser	Glu	Leu	Asp	Phe	Lys	Pro	Pro	Thr	Glu	Pro
				245					250					255
Val	Phe	Ile	Lys	Ala	Pro	Asn	Thr	Phe	Asn	Gly	Asp	Asn	Gln	Thr
			260					265					270	
Val	Arg	Pro	Asn	Asn	Ile	Glu	Tyr	Met	His	Tyr	Glu	Ala	Glu	Leu
			275					280				285		
Val	Val	Ile	Gly	Lys	Thr	Ala	Arg	Lys	Val	Ser	Glu	Ala	Glu	Ala
			290			295					300			
Asp	Tyr	Val	Ala	Gly	Tyr	Thr	Val	Cys	Asn	Asp	Tyr	Ala	Ile	Arg
305					310					315				320
Tyr	Leu	Glu	Asn	Tyr	Tyr	Arg	Pro	Asn	Leu	Arg	Val	Lys	Ser	Arg
			325					330						335
Gly	Leu	Thr	Pro	Ile	Ser	Pro	Asn	Val	Val	Pro	Lys	Glu	Ala	Ile
			340					345					350	Pro
Asp	Pro	His	Asn	Leu	Arg	Leu	Arg	Thr	Tyr	Val	Asn	Gly	Glu	Leu
			355				360					365		Arg
Gln	Glu	Gly	Thr	Thr	Ala	Asp	Leu	Ile	Phe	Ser	Ile	Pro	Phe	Leu
			370			375					380			Ile
Ala	Tyr	Leu	Ser	Asp	Phe	Met	Thr	Leu	Gln	Pro	Gly	Asp	Met	Ile
385					390					395				Ala
Thr	Gly	Thr	Pro	Lys	Gly	Leu	Ser	Asp	Val	Val	Pro	Gly	Asp	Glu
			405						410					Val
Val	Val	Glu	Val	Glu	Gly	Val	Gly	Arg	Leu	Val	Asn	Arg	Ile	Val
			420				425						430	Ser
Glu	Glu	Thr	Ala	Lys										
			435											

<210> 7974

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7974

Lys	Gln	Asp	Ile	Ala	Met	Leu	Asp	Lys	His	Thr	His	Thr	Leu	Ile	Ala
1				5					10					15	
His	Arg	Leu	His	Gln	Ala	Glu	Gln	Ser	Arg	Glu	Gln	Ile	Arg	Ala	Ile
			20					25					30		
Ser	Leu	Glu	Tyr	Pro	Glu	Ile	Thr	Ile	Glu	Asp	Ala	Tyr	Ala	Val	Gln
			35				40					45			
Arg	Glu	Trp	Val	Ser	Leu	Lys	Ile	Ala	Glu	Gly	Arg	Val	Leu	Lys	Gly
			50			55				60					
His	Lys	Ile	Gly	Leu	Thr	Ser	Lys	Ala	Met	Gln	Ala	Ser	Ser	Gln	Ile
65					70				75					80	
Ser	Glu	Pro	Asp	Tyr	Gly	Ala	Leu	Leu	Asp	Asp	Met	Phe	Phe	His	Asp
			85					90						95	
Gly	Ser	Asp	Ile	Pro	Val	Asp	Arg	Phe	Ile	Val	Pro	Arg	Ile	Glu	Val
			100					105					110		
Glu	Leu	Ala	Phe	Val	Leu	Ala	Lys	Pro	Leu	Arg	Gly	Pro	Asn	Cys	Thr
			115				120					125			
Ile	Phe	Asp	Val	Tyr	Asn	Ala	Thr	Asp	Tyr	Val	Ile	Pro	Ala	Leu	Glu
			130			135					140				
Leu	Ile	Asp	Ala	Arg	Cys	His	Asn	Val	Asp	Pro	Glu	Thr	Gln	Arg	Pro
145					150				155					160	
Arg	Lys	Val	Phe	Asp	Thr	Ile	Ser	Asp	Asn	Ala	Ala	Asn	Ala	Gly	Val
			165					170						175	
Ile	Leu	Gly	Gly	Arg	Pro	Ile	Lys	Pro	Asp	Glu	Leu	Asp	Leu	Arg	Trp
			180				185						190		
Ile	Ser	Ala	Leu	Leu	Tyr	Arg	Asn	Gly	Val	Ile	Glu	Glu	Thr	Gly	Val
			195				200					205			
Ala	Ala	Gly	Val	Leu	Asn	His	Pro	Ala	Asn	Gly	Val	Ala	Trp	Leu	Ala

210	215	220
Asn Lys Leu Ala Pro Tyr Asp Val Gln Leu Glu Pro Gly Gln Ile Ile		
225	230	235
Leu Gly Gly Ser Phe Thr Arg Pro Val Ala Ala Ser Arg Gly Asp Thr		
	245	250
Phe His Val Asp Tyr Gly Asn Met Gly Ser Ile Ser Cys Arg Phe Val		
	260	265
		270

<210> 7975

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7975

Ala Ala Glu Ile Thr Gln Arg Glu Val Ser Met Gln Ser Glu Glu Arg		
1	5	10
Leu Arg Phe Arg Asp Ala Met Ala Ser Leu Ser Ala Ala Val Asn Val		
	20	25
Val Thr Thr Glu Gly Asp Ala Gly Arg Cys Gly Ile Thr Ala Thr Ala		
	35	40
Val Cys Ser Val Thr Asp Thr Pro Pro Ser Val Met Val Cys Ile Asn		
	50	55
Ala Asn Ser Ala Met Asn Pro Val Phe Gln Gly Asn Gly Lys Leu Cys		
65	70	75
Val Asn Val Leu Asn His Glu Gln Glu Ile Met Ala Arg His Phe Ala		
	85	90
Gly Met Thr Gly Met Ala Met Glu Glu Arg Phe Ala Leu Ser Cys Trp		
	100	105
Gln Lys Gly Pro Leu Ala Gln Pro Val Leu Lys Gly Ala Leu Ala Ser		
	115	120
Leu Glu Gly Glu Ile Thr Gln Val Gln Thr Ile Gly Thr His Leu Val		
	130	135
Tyr Leu Val Glu Ile Lys Asn Ile Ile Leu Ser Ser Glu Gly His Gly		
145	150	155
Leu Ile Tyr Phe Lys Arg Arg Phe His Pro Val Met Met Glu Met Glu		
	165	170
		175
Ala Ala Val		
	180	

<210> 7976

<211> 773

<212> PRT

<213> Enterobacter cloacae

<400> 7976

Pro Leu Thr Leu Ala Phe Asp Arg Ser Arg Ile Ala Phe Asn His Ser		
1	5	10
Pro Ile Tyr Arg Ala Leu Tyr Ala Arg Gly Ser Gly Thr Ile Ala Pro		
	20	25
Ala Leu Ile Asn Thr Ser Ser Gln Arg Thr Leu Thr Leu Phe Ser Leu		
	35	40
His Lys Lys Pro Gly Leu Thr Met Asp Thr Lys Lys Leu Leu Lys His		
	50	55
Val Pro Trp Ala Ile Leu Gly Ile Ile Gly Ala Phe Cys Leu Ala Val		
65	70	75
Val Ala Leu Arg Arg Gly Glu His Val Ser Ala Leu Trp Ile Val Val		
	85	90
Ala Ser Val Ser Val Tyr Leu Val Ala Tyr Arg Tyr Tyr Ser Leu Tyr		
	100	105
		110

Ile	Ala	Gln	Lys	Val	Met	Lys	Leu	Asp	Pro	Thr	Arg	Ala	Thr	Pro	Ala
		115					120					125			
Val	Ile	Asn	Asn	Asp	Gly	Leu	Asn	Tyr	Val	Pro	Thr	Asn	Arg	Tyr	Val
	130					135					140				
Leu	Phe	Gly	His	His	Phe	Ala	Ala	Ile	Ala	Gly	Ala	Gly	Pro	Leu	Val
145					150					155					160
Gly	Pro	Val	Leu	Ala	Ala	Gln	Met	Gly	Tyr	Leu	Pro	Gly	Thr	Leu	Trp
				165					170					175	
Leu	Leu	Ala	Gly	Val	Val	Leu	Ala	Gly	Ala	Val	Gln	Asp	Phe	Met	Val
			180					185					190		
Leu	Phe	Ile	Ser	Ser	Arg	Arg	Asn	Gly	Ser	Ser	Leu	Gly	Glu	Met	Ile
	195						200					205			
Lys	Glu	Glu	Met	Gly	Arg	Val	Pro	Gly	Thr	Ile	Ala	Leu	Phe	Gly	Cys
	210					215					220				
Phe	Leu	Ile	Met	Ile	Ile	Ile	Leu	Ala	Val	Leu	Ala	Leu	Ile	Val	Val
225					230					235					240
Lys	Ala	Leu	Ala	Glu	Ser	Pro	Trp	Gly	Val	Phe	Thr	Val	Cys	Ser	Thr
				245					250					255	
Val	Pro	Ile	Ala	Leu	Phe	Met	Gly	Ile	Tyr	Met	Arg	Phe	Leu	Arg	Pro
			260					265					270		
Gly	Arg	Val	Gly	Glu	Val	Ser	Val	Ile	Gly	Ile	Val	Leu	Leu	Val	Ala
		275					280					285			
Ser	Ile	Tyr	Phe	Gly	Gly	Val	Ile	Ala	His	Asp	Pro	Tyr	Trp	Gly	Pro
	290					295					300				
Ala	Leu	Thr	Phe	Lys	Asp	Thr	Thr	Ile	Thr	Phe	Ala	Leu	Ile	Gly	Tyr
305					310					315					320
Ala	Phe	Ile	Ser	Ala	Leu	Leu	Pro	Val	Trp	Leu	Ile	Leu	Ala	Pro	Arg
				325					330					335	
Asp	Tyr	Leu	Ala	Thr	Phe	Leu	Lys	Ile	Gly	Val	Ile	Val	Gly	Leu	Ala
			340					345					350		
Ile	Gly	Ile	Val	Ile	Ile	Asn	Pro	Glu	Leu	Lys	Met	Pro	Ala	Val	Thr
		355					360					365			
Gln	Tyr	Ile	Asp	Gly	Thr	Gly	Pro	Leu	Trp	Lys	Gly	Ala	Leu	Phe	Pro
	370					375					380				
Phe	Leu	Phe	Ile	Thr	Ile	Ala	Cys	Gly	Ala	Val	Ser	Gly	Phe	His	Ala
385					390				395						400
Leu	Ile	Ala	Ser	Gly	Thr	Thr	Pro	Lys	Leu	Met	Ala	Asn	Glu	Thr	Asp
				405					410					415	
Ala	Arg	Phe	Ile	Gly	Tyr	Gly	Ala	Met	Leu	Met	Glu	Ser	Phe	Val	Ala
			420					425					430		
Ile	Met	Ala	Leu	Val	Ala	Ala	Ser	Ile	Ile	Glu	Pro	Gly	Leu	Tyr	Phe
		435					440					445			
Ala	Met	Asn	Thr	Pro	Pro	Ala	Gly	Leu	Gly	Ile	Thr	Met	Pro	Asn	Leu
	450					455					460				
His	Glu	Met	Gly	Gly	Glu	Asn	Thr	Ala	Leu	Ile	Leu	Ala	Gln	Leu	Lys
465					470					475					480
Asp	Ala	Ser	Ala	His	Ala	Ala	Ala	Thr	Val	Ser	Ser	Trp	Gly	Phe	Val
				485					490					495	
Ile	Ser	Pro	Glu	Gln	Ile	Met	Gln	Thr	Ala	Lys	Asp	Ile	Gly	Glu	Pro
		500						505					510		
Ser	Val	Leu	Asn	Arg	Ala	Gly	Gly	Ala	Pro	Thr	Leu	Ala	Val	Gly	Ile
		515					520					525			
Ala	His	Val	Phe	His	Lys	Val	Leu	Pro	Trp	Ala	Asp	Met	Gly	Phe	Trp
	530					535					540				
Tyr	His	Phe	Gly	Ile	Leu	Phe	Glu	Ala	Leu	Phe	Ile	Leu	Thr	Ala	Leu
545					550					555					560
Asp	Ala	Gly	Thr	Arg	Ala	Gly	Arg	Phe	Met	Leu	Gln	Asp	Leu	Leu	Gly
				565					570					575	
Asn	Phe	Val	Pro	Phe	Leu	Lys	Lys	Thr	Asp	Ser	Leu	Val	Ala	Gly	Val
			580					585					590		
Leu	Gly	Thr	Ala	Gly	Cys	Val	Gly	Leu	Trp	Gly	Tyr	Leu	Leu	Tyr	Gln

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<210> 7977
<211> 233
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Thr	Leu	Asn	Ser 5	Ser	Ala	Ser	Val	Arg 10	Lys	Arg	Ala	Thr	Ala 15	Glu
Val	Glu	Lys	Ala 20	Ala	Ser	Ala	Ala	Ala 25	Lys	Gly	Glu	Thr	Met 30	Thr	Pro
Ile	Ala	Val 35	Thr	Leu	Leu	Thr	Gly 40	Phe	Leu	Gly	Ala	Gly 45	Lys	Thr	Thr
Leu	Leu 50	Arg	His	Ile	Leu	Asn 55	Glu	Gln	His	Gly	Phe 60	Lys	Ile	Ala	Val
Ile 65	Glu	Asn	Glu	Phe 70	Gly	Glu	Val	Ser	Val	Asp 75	Asp	Gln	Leu	Ile	Gly 80
Asp	Arg	Ala	Thr 85	Gln	Ile	Lys	Thr	Leu	Thr 90	Asn	Gly	Cys	Ile	Cys 95	Cys
Thr	Arg	Ser	Asn 100	Glu	Leu	Glu	Asp	Ala 105	Leu	Leu	Asp	Leu	Leu 110	Asp	Ser
Arg	Asp	Arg 115	Gly	Asp	Ile	Val	Phe 120	Asp	Arg	Leu	Val	Ile 125	Glu	Cys	Thr
Gly	Met 130	Ala	Asp	Pro	Gly	Pro 135	Ile	Ile	Gln	Thr	Phe 140	Phe	Ser	His	Glu
Ile 145	Ile	Cys	Gln	Arg 150	Tyr	Leu	Leu	Asp	Gly	Val 155	Ile	Ala	Leu	Val	Asp 160
Ala	Val	His	Ala 165	Asp	Glu	Gln	Met	Asn 170	Gln	Phe	Thr	Ile	Ala 175	Gln	Ser
Gln	Val	Gly 180	Tyr	Ala	Asp	Arg	Ile	Leu 185	Leu	Thr	Lys	Thr 190	Asp	Val	Ala
Gly	Glu	Ser 195	Glu	Lys	Leu	Arg	Glu 200	Arg	Leu	Thr	Arg	Ile 205	Asn	Ser	Arg
Ala	Pro 210	Ile	Tyr	Thr	Val	Thr 215	His	Gly	Asp	Ile	Asp 220	Leu	Ala	Gln	Leu
Phe 225	Asn	Thr	Asn	Gly 230	Phe	Met	Leu								

<210> 7978
 <211> 196
 <212> PRT
 <213> Enterobacter cloacae

<400> 7978

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Tyr Val Gln Arg Pro His Gln His Arg Ser Gly Ala Leu Gly Asp Ser
1      5      10      15
Gln Pro Ala Asp Ala Gly Asp Leu Tyr Arg Gly Gly Asn Gly His Asp
      20      25      30
Thr Leu Gly Val Thr Arg Met Gly Val Ile Asp Phe Leu Leu Ala Leu
      35      40      45
Ala Gln Asp Met Leu Leu Ala Leu Pro Ala Val Gly Phe Ala Met
      50      55      60
Val Phe Asn Val Pro Gln Arg Ala Leu Pro Trp Cys Ala Leu Leu Gly
65      70      75      80
Ala Ile Gly His Gly Ser Arg Met Ile Met Met Thr Ala Gly Phe Asn
      85      90      95
Ile Glu Trp Ser Thr Phe Ile Ala Ser Met Leu Val Gly Ser Ile Gly
      100     105     110
Ile Gln Trp Ser Arg Trp Tyr Leu Ala His Pro Lys Val Phe Thr Val
      115     120     125
Ala Ala Val Ile Pro Met Phe Pro Gly Ile Ser Ala Tyr Thr Ala Met
      130     135     140
Ile Ser Ala Val Lys Ile Ser His Phe Gly Tyr Ser Glu Pro Gln Met
145     150     155     160
Ile Leu Leu Leu Ser Asn Phe Leu Lys Ala Ser Ser Ile Val Gly Ala
      165     170     175
Leu Ser Ile Gly Leu Ser Ile Pro Gly Leu Trp Leu Tyr Arg Lys Arg
      180     185     190
Pro Arg Val
      195

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<210> 7979
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 7979

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Glu Ser Val Met Ser Ser Arg Ile Leu Thr Thr Ser Ile Ala Gly Ile
1      5      10      15
Asp Ala Phe Met Arg Asp Pro Arg Gly Val Leu Thr His Ala Glu Gly
      20      25      30
Gly Thr Leu Ala Val Phe Ala Asp Asn Ala Pro Ala Phe Tyr Ala Val
      35      40      45
Thr Pro Glu Arg Leu Ala Gln Leu Leu Glu Ile Glu Ala Lys Leu Ser
      50      55      60
Arg Pro Ala Ser Asp Val Met Leu Asp Asn Gln Phe Phe Asp Glu Pro
65      70      75      80
Ala Ser Ala Pro Val Ala Val Pro Met Gly Lys Phe Pro Met Tyr Ala
      85      90      95
Gly Trp Gln Pro Asp Ala Asp Phe Gln Arg Gln Ala Ala Leu Trp Gly
      100     105     110
Ile Ala Leu Ala Gln Pro Ala Thr Pro Glu Glu Leu Ala Ala Phe Thr
      115     120     125
Ala Tyr Trp Gln Ala Glu Gly Lys Val Phe His His Val Gln Trp Gln
      130     135     140
Gln Lys Phe Ala Arg Ser Leu Gln Ile Asn Arg Ala Ser Asn Asn Gly
145     150     155     160
Gln Pro Lys Arg Asp Ile Asn Ala Phe Ser Glu Pro Asp Lys Lys Ile
      165     170     175

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Trp Asp Glu Leu Asn Lys Leu Asp Arg Ser Asn Leu Phe Phe Val Leu
 420 425 430
 Arg Gly Asp Lys Pro Gln Gln Glu Ile Ile Ala Ala Lys Arg Asn Ser
 435 440 445
 Met Asp Asn Gly Ala Thr Val Leu Asp Ile Leu Gly Gly Asp Asn Phe
 450 455 460
 Ile Gly Leu Ser Arg Ser Thr Leu Ser Gly Gln Ser Leu Ser Glu Ile
 465 470 475 480
 Phe Leu Asn Met Lys Glu Lys Ile Leu Ala Trp Lys Pro Asp Ile Ile
 485 490 495
 Arg Leu Trp Asn Phe Pro Lys Glu Ile Lys Asp Phe Thr Ile Asp Gln
 500 505 510
 Asp Lys Lys Met Ile Ala Phe Ser Gly Ser His Phe Arg Leu Pro Leu
 515 520 525
 Leu Leu Arg Val Ser Asp Asn Arg Val Glu Pro Leu Pro Glu Ser Glu
 530 535 540
 Tyr Ser Ala Pro Leu Arg Phe Gln Leu Ala Glu Phe Ala Pro Arg Asp
 545 550 555 560
 Asn Phe Val Trp Val Asp Lys Cys Tyr Lys Met Gly Gln Leu Trp Ser
 565 570 575
 Gln Gln Leu Ser Leu Ser Thr Asp Trp Cys Val Ser Gln Gly Gln Leu
 580 585 590
 Gly Gly Glu Gln Ala Val Gln His Val Asp Lys Pro Gln Trp Gln Gly
 595 600 605
 Lys Thr Ala Phe Lys Asp Thr Val Ile Asp Thr Ala Arg Tyr Gln Arg
 610 615 620
 Asn Val Asp Leu Leu Lys Ile Val Asp Asn Asp Ile Arg Tyr Lys Ala
 625 630 635 640
 Asp Ser Phe Ile Phe Asn Val Ala Gly Ala Pro Glu Glu Val Lys Gln
 645 650 655
 Phe Ser Gly Ile Ser Arg Pro Glu Ser Trp Gly Arg Trp Ser Asn Ala
 660 665 670
 Gln Leu Gly Asp Glu Val Lys Ile Glu Tyr Thr His Pro Leu Pro Glu
 675 680 685
 Lys Phe Asp Leu Val Ile Thr Ala Arg Ala Phe Gly Pro Asn Ala Asn
 690 695 700
 Arg Pro Ile Pro Val Arg Val Gly Asp Lys Glu Gln Thr Leu Thr Leu
 705 710 715 720
 Ser Asn Asp Val Thr Ser Thr Leu His Phe Asp Asn Pro Thr Arg
 725 730 735
 Ser Asn Thr Leu Val Ile Val Pro Pro Asp Pro Gln Ser Thr Asn Glu
 740 745 750
 Gly Asn Ile Leu Gly His Ala Pro Arg Lys Leu Gly Ile Gly Met Val
 755 760 765
 Glu Ile Lys Ile Val Ser Ser Ala Gly
 770 775

<210> 7981

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 7981

Gly Arg Ser Gly Arg Pro Ala Pro Gly Glu Arg Arg Gly Val Trp Pro
 1 5 10 15
 Gly Val Val His Leu Asp Pro Gly Arg Gln Gln Ser Ala Ala Ser Gly
 20 25 30
 Ala Gln His Arg Ser Gly His Gly Val Arg Gln His Pro Glu Arg Ala
 35 40 45
 Arg Pro Ala Pro Ala Val Trp Arg Arg Glu Gly Leu Arg His Arg Ala
 50 55 60

Arg Arg Arg Arg Val Gln Leu Arg Gly Ile Arg Gly Asp Glu Glu Arg
 65 70 75 80
 Val His Leu His Gly Arg Pro Ser Asp Ser Lys Val Gly Asp Leu Lys
 85 90 95
 Met Gly Lys Leu Ala Leu Ala Ala Lys Ile Thr His Val Pro Ser Met
 100 105 110
 Tyr Leu Ser Glu Leu Pro Gly Lys Asn His Gly Cys Arg Gln Gly Ala
 115 120 125
 Ile Asp Gly His Lys Glu Ile Ser Lys Arg Cys Arg Glu Leu Gly Val
 130 135 140
 Asp Thr Ile Ile Val Phe Asp Thr His Trp Leu Val Asn Ser Ala Tyr
 145 150 155 160
 His Ile Asn Cys Ala Asp His Phe Ser Gly Val Tyr Thr Ser Asn Glu
 165 170 175
 Leu Pro His Phe Ile Arg Asp Met Thr Tyr Asp Tyr Asp Gly Asn Pro
 180 185 190
 Glu Leu Gly Gln Leu Ile Ala Asp Glu Ala Val Lys Leu Gly Val Arg
 195 200 205
 Ala Lys Ala His Asn Ile Pro Ser Leu Lys Leu Glu Tyr Gly Thr Leu
 210 215 220
 Val Pro Met Arg Tyr Met Asn Ala Asp Lys His Phe Lys Val Val Ser
 225 230 235 240
 Ile Ser Ala Phe Cys Thr Val His Asp Phe Ala Asp Ser Arg Arg Leu
 245 250 255
 Gly Glu Ala Ile Ile Ser Ala Ile Glu Lys Tyr Asp Gly Thr Val Ala
 260 265 270
 Val Leu Ala Ser Gly Ser Leu Ser His Arg Phe Ile Asp Asp Gln Arg
 275 280 285
 Ala Glu Glu Gly Met Asn Ser Tyr Thr Arg Glu Phe Asp Arg Gln Met
 290 295 300
 Asp Glu Arg Val Val Lys Leu Trp Arg Glu Gly Gln Phe Lys Glu Phe
 305 310 315 320
 Cys Ser Met Leu Pro Glu Tyr Ala Asp Tyr Cys Tyr Gly Glu Gly Asn
 325 330 335
 Met His Asp Thr Val Met Leu Leu Gly Met Leu Gly Trp Asp Lys Tyr
 340 345 350
 Asp Gly Lys Val Glu Phe Leu Thr Glu Leu Phe Ala Ser Ser Gly Thr
 355 360 365
 Gly Gln Val Asn Ala Val Phe Pro Leu Pro Ala
 370 375 380

<210> 7982

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7982

Gly Val Val Met Pro His Phe Ile Ala Glu Cys Thr Asn Asn Ile Arg
 1 5 10 15
 Glu Gln Ala Asp Leu Pro Gly Leu Phe Ala Lys Val Asn Glu Ala Leu
 20 25 30
 Ala Ala Thr Gly Ile Phe Pro Leu Gly Gly Ile Arg Ser Arg Ala His
 35 40 45
 Trp Leu Asp Thr Trp Gln Met Ala Asp Gly Lys His Asp Tyr Ala Phe
 50 55 60
 Val His Met Thr Leu Lys Ile Gly Ala Gly Arg Ser Leu Glu Ser Arg
 65 70 75 80
 Glu Glu Val Gly Glu Met Leu Phe Ala Leu Ile Lys Thr His Phe Ala
 85 90 95
 Glu Leu Met Ala Gly Arg Tyr Leu Ala Leu Ser Phe Glu Leu Asp Glu
 100 105 110

Leu His Pro Thr Leu Asn Tyr Lys Gln Asn Asn Val His Ala Leu Phe
 115 120 125
 Lys
 130

<210> 7983

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7983

Ser Lys Arg Pro Gly Ser Pro Gln Ala Cys Leu Thr Thr Arg Arg Thr
 1 5 10 15
 Ala Trp Arg Gly Trp Arg Thr Asn Ser Arg His Thr Thr Cys Ser Leu
 20 25 30
 Ser Gln Asp Lys Ser Ser Ser Ala Ala Arg Leu Pro Ala Arg Leu Pro
 35 40 45
 Pro Ala Glu Ala Thr Pro Ser Thr Ser Thr Thr Ala Thr Trp Ala Pro
 50 55 60
 Ser Ala Ala Ala Leu Cys Lys Glu Met Thr Met Gln Asn Ala Phe Lys
 65 70 75 80
 Ala Ala Leu Lys Ala Gly Arg Pro Gln Ile Gly Leu Trp Leu Gly Leu
 85 90 95
 Thr Ser Ser Tyr Ser Ala Glu Leu Leu Ala Gly Ala Gly Phe Asp Trp
 100 105 110
 Leu Leu Ile Asp Gly Glu His Ala Pro Asn Ser Val Gln Thr Ile Leu
 115 120 125
 Thr Gln Leu Gln Ala Ile Ala Pro Tyr Pro Ser Gln Pro Val Val Arg
 130 135 140
 Pro Ser Trp Asn Asp Pro Val Gln Ile Lys Gln Leu Leu Asp Val Gly
 145 150 155 160
 Ala Gln Thr Leu Leu Val Pro Met Val Gln Asn Ala Asp Glu Ala Arg
 165 170 175
 Leu Ala Val Ser Ala Thr Arg Tyr Pro Pro Ala Gly Ile Arg Gly Val
 180 185 190
 Gly Ser Ala Leu Ala Arg Ala Ser Arg Trp Asn Arg Ile Pro Glu Tyr
 195 200 205
 Leu His Gln Ala Asn Asp Ala Met Cys Val Leu Val Gln Ile Glu Thr
 210 215 220
 Arg Glu Ala Leu Lys Asn Leu Pro Gln Ile Leu Asp Val Glu Gly Val
 225 230 235 240
 Asp Gly Val Phe Ile Gly Pro Ala Asp Leu Ser Ala Asp Met Gly Phe
 245 250 255
 Ala Gly Asn Pro Gln His Pro Glu Val Gln Ala Ala Ile Glu Gln Ala
 260 265 270
 Ile Ala Gln Ile Leu Ser Ala Gly Lys Ala Pro Gly Ile Leu Met Ala
 275 280 285
 Asn Glu Gln Leu Ala Lys Arg Tyr Leu Glu Leu Gly Ala Leu Phe Val
 290 295 300
 Ala Val Gly Val Asp Thr Thr Leu Leu Ala Arg Ser Ala Glu Ala Leu
 305 310 315 320
 Ala Ala Arg Phe Thr Asp Val Thr Thr Ala Val Asp Asn Asn Lys Ser
 325 330 335
 Val Tyr

<210> 7984

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7984

Thr	Tyr	Asp	Val	Glu	Arg	Asn	Met	Thr	Thr	Ser	Thr	Leu	His	Asn	Lys
1				5					10					15	
Ala	Val	Glu	His	Arg	Val	Ile	Asn	Lys	Leu	Phe	Arg	Arg	Leu	Ile	Val
			20					25					30		
Phe	Leu	Phe	Ile	Leu	Phe	Val	Phe	Ser	Phe	Leu	Asp	Arg	Ile	Asn	Ile
		35					40				45				
Gly	Phe	Ala	Gly	Leu	Thr	Met	Gly	Lys	Asp	Leu	Gly	Leu	Thr	Ser	Thr
		50				55					60				
Met	Phe	Gly	Leu	Ala	Ala	Thr	Leu	Phe	Tyr	Val	Thr	Tyr	Val	Leu	Cys
65					70					75					80
Gly	Ile	Pro	Ser	Asn	Ile	Met	Leu	Ala	Lys	Ile	Gly	Ala	Arg	Arg	Trp
				85					90					95	
Ile	Ala	Gly	Ile	Met	Val	Val	Trp	Gly	Ile	Ala	Ser	Thr	Cys	Thr	Met
			100					105					110		
Phe	Ala	Thr	Ser	Pro	Glu	Thr	Leu	Tyr	Val	Leu	Arg	Met	Leu	Val	Gly
		115					120					125			
Ile	Ala	Glu	Ala	Gly	Phe	Leu	Pro	Gly	Ile	Leu	Val	Tyr	Leu	Thr	Trp
		130				135					140				
Trp	Phe	Pro	Ala	Tyr	His	Arg	Ala	Arg	Ala	Asn	Ala	Leu	Phe	Met	Ile
145					150					155					160
Ala	Met	Pro	Val	Thr	Met	Met	Leu	Gly	Ser	Ile	Leu	Ser	Gly	Tyr	Ile
				165					170					175	
Leu	Ala	Met	Asp	Gly	Leu	Trp	Asn	Leu	Lys	Gly	Trp	Gln	Trp	Leu	Phe
			180				185						190		
Leu	Leu	Glu	Gly	Leu	Pro	Ser	Val	Val	Leu	Gly	Val	Val	Thr	Trp	Phe
		195					200					205			
Tyr	Leu	Asn	Asp	Thr	Pro	Asp	Gln	Ala	Thr	Trp	Leu	Asp	Asp	Asp	Glu
		210				215					220				
Lys	Gln	Ala	Leu	Lys	Thr	Met	Ile	Ala	Arg	Glu	Gln	Glu	Leu	Ala	Ile
225					230					235					240
Ala	His	Ala	Ala	Thr	Pro	Arg	Ser	Thr	Leu	Arg	Glu	Val	Leu	Thr	Pro
				245					250					255	
Ala	Val	Leu	Leu	Tyr	Thr	Leu	Ala	Tyr	Phe	Cys	Leu	Thr	Asn	Thr	Leu
			260					265					270		
Ser	Ala	Ile	Asn	Ile	Trp	Thr	Pro	Gln	Ile	Leu	Gln	Ser	Phe	Asn	Thr
		275					280					285			
Gly	Ser	Ser	Asn	Ile	Val	Ile	Gly	Leu	Leu	Ala	Ala	Ile	Pro	Gln	Phe
		290				295					300				
Cys	Thr	Ile	Leu	Gly	Met	Ile	Trp	Trp	Ser	Arg	Arg	Ser	Asp	Arg	Leu
305					310					315					320
Lys	Glu	Arg	Lys	Lys	His	Thr	Ile	Leu	Pro	Tyr	Leu	Phe	Ala	Ala	Ala
				325					330					335	
Gly	Trp	Met	Leu	Ala	Ser	Ala	Thr	Asp	His	Ser	Leu	Ile	Gln	Leu	Leu
			340					345					350		
Gly	Ile	Ile	Met	Ala	Ser	Thr	Gly	Ser	Phe	Thr	Ala	Met	Ala	Ile	Phe
		355					360					365			
Trp	Thr	Thr	Pro	Asp	Gln	Val	Ile	Ser	Leu	Gln	Ser	Arg	Ala	Val	Ala
						375					380				
Leu	Ala	Val	Ile	Asn	Ala	Ile	Gly	Asn	Val	Gly	Ser	Ala	Val	Ser	Pro
385				390						395					400
Leu	Leu	Ile	Gly	Ile	Leu	Arg	Asp	Ala	Thr	Gly	Ser	Phe	Ser	Ser	Gly
				405					410					415	
Leu	Trp	Phe	Val	Ala	Gly	Leu	Leu	Val	Val	Gly	Ala	Leu	Val	Leu	Thr
			420					425					430		
Arg	Ile	Pro	Met	Thr	Arg	Arg	Glu	Ser	Leu	Glu	Arg	Glu	Pro	Asp	Ile
		435					440					445			
Ala	Ala	Gln	Lys	Ile	His										
		450				455									

<210> 7985

<211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 7985

Gly	Ala	Ala	Met	Cys	Gln	Ser	Pro	Ile	Thr	Asn	Ile	Asp	Ile	Ser	Lys
1				5					10					15	
Glu	Tyr	Asp	Glu	Ser	Leu	Gly	Thr	Asp	Asp	Val	His	Tyr	Gln	Ser	Phe
		20						25					30		
Ala	Arg	Met	Ala	Ala	Phe	Phe	Gly	Arg	Asp	Met	Gln	Ala	His	Arg	His
		35					40					45			
Asp	Gln	Tyr	Phe	Gln	Met	His	Phe	Leu	Asp	Thr	Gly	Gln	Ile	Glu	Leu
	50					55					60				
Gln	Leu	Asp	Asp	His	Arg	Tyr	Ser	Val	Gln	Ala	Pro	Leu	Phe	Val	Leu
65				70					75						80
Thr	Pro	Pro	Ser	Val	Pro	His	Ala	Phe	Ile	Thr	Glu	Ser	Asp	Ser	Asp
				85					90					95	
Gly	His	Val	Leu	Thr	Val	Arg	Glu	Asp	Leu	Ile	Trp	Pro	Leu	Leu	Glu
			100					105					110		
Val	Leu	Tyr	Pro	Gly	Thr	Arg	Glu	Ala	Phe	Gly	Leu	Pro	Gly	Ile	Cys
		115					120					125			
Leu	Ser	Leu	Ala	Asp	Lys	Pro	Asp	Glu	Leu	Ala	Ala	Leu	Lys	His	Tyr
		130			135						140				
Trp	Gln	Leu	Ile	Ala	Arg	Glu	Ser	Thr	Glu	Gln	Leu	Pro	Gly	Arg	Glu
145				150						155					160
His	Thr	Leu	Val	Leu	Leu	Ala	Gln	Ala	Val	Phe	Thr	Leu	Leu	Leu	Arg
			165						170					175	
Asn	Ala	Lys	Leu	Asp	Asp	His	Ala	Ser	Gly	Gly	Met	Arg	Gly	Glu	Leu
			180					185					190		
Lys	Leu	Phe	Gln	Arg	Phe	Asn	Gln	Leu	Thr	Asp	Ala	His	Tyr	His	Glu
		195					200					205			
His	Trp	Thr	Val	Pro	Glu	Tyr	Ala	Ser	Glu	Leu	His	Leu	Thr	Glu	Ser
		210				215					220				
Arg	Leu	Thr	Asp	Ile	Cys	Arg	Arg	Phe	Ala	Asn	Arg	Ser	Pro	Lys	Arg
225				230						235					240
Leu	Ile	Phe	Asp	Arg	Gln	Leu	Arg	Glu	Ala	Arg	Arg	Leu	Leu	Leu	Phe
			245						250					255	
Ser	Asp	Ser	Thr	Val	Ser	Glu	Ile	Ala	Trp	Gln	Leu	Gly	Phe	Lys	Asp
			260					265					270		
Pro	Ala	Tyr	Phe	Ala	Arg	Phe	Phe	Asn	Arg	Leu	Thr	Gly	Cys	Ser	Pro
		275					280					285			
Ser	Ala	Tyr	Arg	Ala	Gln	Lys	Val	Pro	Val	Ser	Pro	Val	Pro	Leu	Thr
		290				295					300				
Pro	Ala	Leu	Ser	Gln	Met	Glu	Arg	Glu							
305					310										

<210> 7986
 <211> 562
 <212> PRT
 <213> Enterobacter cloacae

<400> 7986

Ser	Leu	Ala	Lys	Ser	Thr	Cys	Arg	Cys	Pro	Asn	Arg	Pro	Phe	Thr	Phe
1				5					10					15	
Arg	Pro	Ser	His	Ala	Ser	Ile	Lys	Gln	Gln	Lys	Gln	Asn	Ile	Asn	Leu
			20					25					30		
Thr	Thr	Ile	Phe	Arg	Tyr	Glu	Val	Pro	Met	Lys	Pro	Glu	Asp	Phe	Arg
		35					40					45			
Ala	Asp	Ala	Lys	Arg	Pro	Leu	Thr	Gly	Glu	Glu	Tyr	Leu	Asn	Ser	Leu
	50					55					60				
Gln	Asp	Gly	Arg	Glu	Ile	Tyr	Ile	Tyr	Gly	Glu	Arg	Val	Lys	Asp	Val

65					70					75				80
Thr	Thr	His	Pro	Ala	Phe	Arg	Asn	Ala	Ala	Ala	Ser	Ile	Ala	Gln Met
				85					90					95
Tyr	Asp	Ala	Leu	His	Lys	Pro	Asp	Met	Gln	Asp	Thr	Leu	Cys	Trp Gly
			100					105					110	
Thr	Asp	Thr	Gly	Ser	Gly	Gly	Tyr	Thr	His	Lys	Phe	Phe	Arg	Val Ala
		115					120					125		
Lys	Ser	Ala	Asp	Asp	Leu	Arg	Gln	Gln	Arg	Asp	Ala	Ile	Ala	Glu Trp
	130					135				140				
Ser	Arg	Leu	Ser	Tyr	Gly	Trp	Met	Gly	Arg	Thr	Pro	Asp	Tyr	Lys Ala
145					150				155					160
Ala	Phe	Gly	Cys	Ala	Leu	Gly	Ala	Asn	Pro	Ala	Phe	Tyr	Gly	Gln Phe
			165					170						175
Glu	Gln	Asn	Ala	Arg	Asn	Trp	Tyr	Thr	Arg	Ile	Gln	Glu	Thr	Gly Leu
		180					185					190		
Tyr	Phe	Asn	His	Ala	Ile	Val	Asn	Pro	Pro	Ile	Asp	Arg	His	Lys Pro
	195						200				205			
Ala	Asp	Glu	Val	Lys	Asp	Val	Tyr	Ile	Lys	Leu	Glu	Lys	Glu	Thr Asp
	210					215					220			
Ala	Gly	Ile	Ile	Val	Ser	Gly	Ala	Lys	Val	Val	Ala	Thr	Asn	Ser Ala
225					230				235					240
Leu	Thr	His	Tyr	Asn	Met	Ile	Gly	Phe	Gly	Ser	Ala	Gln	Val	Met Gly
			245					250						255
Glu	Asn	Pro	Asp	Phe	Ala	Leu	Met	Phe	Val	Ala	Pro	Met	Asp	Ala Glu
		260					265					270		
Gly	Val	Lys	Leu	Ile	Ser	Arg	Ala	Ser	Tyr	Glu	Met	Val	Ala	Gly Ala
	275						280				285			
Thr	Gly	Ser	Pro	Tyr	Asp	Tyr	Pro	Leu	Ser	Ser	Arg	Phe	Asp	Glu Asn
	290					295					300			
Asp	Ala	Ile	Leu	Val	Met	Asp	His	Val	Leu	Ile	Pro	Trp	Glu	Asn Val
305					310				315					320
Leu	Ile	Tyr	Arg	Asp	Phe	Asp	Arg	Cys	Arg	Arg	Trp	Thr	Met	Glu Gly
			325					330						335
Gly	Phe	Ala	Arg	Met	Tyr	Pro	Leu	Gln	Ala	Cys	Val	Arg	Leu	Ala Val
		340					345					350		
Lys	Leu	Asp	Phe	Ile	Thr	Ala	Leu	Leu	Lys	Lys	Ser	Leu	Glu	Cys Thr
	355						360					365		
Gly	Thr	Leu	Glu	Phe	Arg	Gly	Val	Gln	Ala	Asp	Leu	Gly	Glu	Val Val
	370					375					380			
Ala	Trp	Arg	Asn	Met	Phe	Trp	Ala	Leu	Ser	Asp	Ser	Met	Cys	Ser Glu
385					390				395					400
Ala	Thr	Pro	Trp	Val	Asn	Gly	Ala	Tyr	Leu	Pro	Asp	His	Ala	Ala Leu
			405					410						415
Gln	Thr	Tyr	Arg	Val	Met	Ala	Pro	Met	Ala	Tyr	Ala	Lys	Ile	Lys Asn
		420					425					430		
Ile	Ile	Glu	Arg	Asn	Val	Thr	Ser	Gly	Leu	Ile	Tyr	Leu	Pro	Ser Ser
	435						440					445		
Ala	Arg	Asp	Leu	Asn	Asn	Pro	Gln	Ile	Asp	Gln	Tyr	Leu	Ala	Lys Tyr
	450					455				460				
Val	Arg	Gly	Ser	Asn	Gly	Met	Asp	His	Val	Glu	Arg	Ile	Lys	Ile Leu
465					470				475					480
Lys	Leu	Met	Trp	Asp	Ala	Ile	Gly	Ser	Glu	Phe	Gly	Gly	Arg	His Glu
			485					490					495	
Leu	Tyr	Glu	Ile	Asn	Tyr	Ser	Gly	Ser	Gln	Asp	Glu	Ile	Arg	Leu Gln
		500					505					510		
Cys	Leu	Arg	Gln	Ala	Gln	Ser	Ser	Gly	Asn	Met	Asp	Lys	Met	Met Ala
	515					520						525		
Met	Val	Asp	Arg	Cys	Met	Ser	Glu	Tyr	Asp	Gln	His	Gly	Trp	Thr Val
	530					535					540			
Pro	His	Leu	His	Asn	Asn	Thr	Asp	Ile	Asn	Met	Leu	Asp	Lys	Leu Leu
545					550				555					560

Lys

<210> 7987

<211> 568

<212> PRT

<213> Enterobacter cloacae

<400> 7987

Phe	Leu	Pro	Leu	Thr	Leu	Ile	Cys	Pro	Phe	Ser	Asp	Pro	Pro	Leu	Trp
1				5					10					15	
Asn	Arg	Met	Val	Ala	His	Gly	Asp	Ala	His	Val	Leu	His	Leu	Arg	Glu
			20					25					30		
Tyr	Leu	Glu	Ala	Val	Leu	Ala	Ala	Phe	Ala	Pro	Gly	Ala	Gly	Gly	Leu
		35					40					45			
His	Ala	Ala	Lys	Arg	Leu	Ala	Gln	Val	Ala	His	Val	Leu	Gly	Val	Asp
	50					55					60				
Glu	His	His	Ala	Arg	Phe	Asp	Val	Ala	Arg	Gln	Thr	Gln	His	Phe	Ala
65					70					75					80
Asp	Val	Leu	Gly	Pro	Asp	Val	Arg	Arg	Gln	Ala	Ile	Leu	His	Val	Val
				85					90					95	
Arg	Gln	Ala	Gln	Ala	Phe	Arg	Phe	Val	Leu	Lys	Arg	Gln	Gln	Ala	Gly
			100					105					110		
His	Arg	Pro	Glu	Asp	Leu	Phe	Leu	Arg	His	Ala	His	Ala	Val	Ile	Asp
		115					120					125			
Ile	Arg	Gln	His	Gly	Arg	Ala	Gln	Glu	Val	Ala	Ala	Phe	Gln	Val	Arg
	130					135					140				
Arg	Gln	Ile	Gly	Arg	Phe	Val	Arg	Ala	Ala	Arg	Gln	Gln	Gly	Cys	Pro
145					150					155					160
Leu	Phe	Asn	Ala	Glu	Ala	Asp	Ile	Ala	Gly	Asp	Phe	Phe	Pro	Val	Leu
				165					170					175	
Leu	Ala	Asp	Glu	Arg	Ala	Asn	Leu	Gly	Val	Trp	Ile	Gly	Arg	Val	Ala
			180					185					190		
His	Ala	Gln	Ala	Val	Gly	Ala	Leu	Gly	Lys	Ala	Phe	Asp	Glu	Leu	Arg
		195					200					205			
Val	Asp	Ala	Leu	Leu	Asp	Glu	Asp	Ala	Arg	Ala	Gly	Gly	Ala	Ala	Phe
	210					215					220				
Ala	Val	Asp	Gly	Glu	Asn	Gly	Glu	Gln	Gly	Gly	Val	Gln	Arg	Ala	Leu
225					230					235					240
Asp	Val	Arg	Val	Phe	Lys	Asn	Gln	His	Arg	Arg	Phe	Ala	Ala	Gln	Leu
				245					250					255	
His	Arg	Ile	Leu	Leu	Gln	Pro	Gly	Val	Phe	His	Asp	Val	Thr	Pro	Gly
			260					265					270		
Gly	Gly	Ala	Ala	Gly	Glu	Gly	Asp	Gly	Ala	His	Val	Met	Met	Thr	His
		275					280					285			
Gln	Arg	Val	Ala	Arg	Arg	Gly	Ala	Ile	Ala	Leu	His	His	Val	Glu	His
	290					295					300				
Ala	Arg	Arg	Asn	Ala	Arg	Phe	Glu	Gly	Gln	Leu	Ala	Gln	Thr	Val	Gly
305					310					315					320
Gly	Gln	Arg	Gly	Glu	Phe	Arg	His	Leu	Gln	His	Arg	Gly	Val	Thr	Gln
			325					330						335	
Arg	Glu	Thr	Gly	Arg	Asp	Leu	Pro	Gly	Gly	Gly	His	Lys	Arg	His	Val
			340					345					350		
Pro	Arg	Arg	His	Gln	Arg	Ala	Asp	Thr	His	Arg	Leu	His	Gln	Gly	Val
		355					360					365			
Val	Glu	His	Leu	Val	Val	Asp	Arg	Val	Gly	Phe	Ala	Val	His	Leu	Leu
	370					375					380				
Ala	His	Leu	Gly	Glu	Glu	Leu	Glu	Val	Val	Arg	Gly	Ala	Arg	Asn	Glu
385					390					395					400
His	Val	Phe	Gly	Leu	Val	Asp	Arg	Gln	Ala	Gly	Val	Gly	Gly	Leu	His
				405					410					415	

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Arg Gly Asn Val Arg His Val Leu Val Asn Gln Ile Pro Gln Ala Thr
 420 425 430
 His Gln Ala Arg Thr Leu Leu His Arg Gln Val Gly Pro Phe Arg Glu
 435 440 445
 Arg Leu Phe Gly Gly Gly Asn Gly Leu Met Asp Phe Gly Phe Ala Pro
 450 455 460
 Gly Gly Tyr Phe Ser Gln His Leu Ala Gly Gly Arg Val Ser Gly Leu
 465 470 475 480
 Glu Val Leu Thr Ser Gly Asp Val Phe Pro Val Asp Pro Val Val Asn
 485 490 495
 Leu Phe His Phe Ala Val Ser Ser Leu Thr Ile Arg Phe Thr Arg Arg
 500 505 510
 Pro Thr Pro Ser Thr Ser Thr Thr Thr Ser Ser Pro Gly Thr Thr Ser
 515 520 525
 Asp Ser Pro Phe Gly Val Pro Val Ala Ile Met Ser Pro Gly Cys Arg
 530 535 540
 Val Met Lys Ser Leu Arg Tyr Ala Ile Arg Asn Gly Met Leu Lys Met
 545 550 555 560
 Arg Ser Ala Val Val Pro Ser
 565

<210> 7988

<211> 596

<212> PRT

<213> Enterobacter cloacae

<400> 7988

Thr Trp Lys Pro Thr Tyr Cys Arg Ala Gly Arg Arg Val Lys Thr Leu
 1 5 10 15
 Asn Ser Arg Met Ile Phe Val Lys Phe Ser Leu Ser Arg Pro Lys Ile
 20 25 30
 Leu Tyr Leu Ser Glu Glu Arg Glu Asn Met Leu Asn Arg Ile Lys Ile
 35 40 45
 Val Thr Ser Leu Leu Leu Val Leu Ala Ile Phe Gly Leu Leu Gln Leu
 50 55 60
 Thr Ser Gly Gly Leu Phe Phe Asn Ala Leu Lys His Asp Lys Glu Asn
 65 70 75 80
 Phe Thr Ile Leu Gln Thr Ile Arg Gln Gln Gln Ser Thr Leu Asn Gly
 85 90 95
 Ser Trp Val Ala Leu Leu Gln Thr Arg Asn Thr Leu Asn Arg Ala Gly
 100 105 110
 Ile Arg Tyr Met Met Asp Gln Asn Asn Ile Gly Ser Gly Ser Thr Val
 115 120 125
 Ala Glu Leu Met Gln Ile Ala Ser Ala Ser Leu Lys Gln Ala Glu Lys
 130 135 140
 Asn Trp Ala Asp Tyr Glu Ala Leu Pro Arg Asp Pro Arg Gln Ser Asp
 145 150 155 160
 Ala Ala Ala Leu Glu Ile Lys Arg Asn Tyr Asp Ile Tyr His Gly Ala
 165 170 175
 Leu Ala Glu Leu Ile Gln Leu Leu Gly Ala Gly Lys Ile Asn Glu Phe
 180 185 190
 Phe Asp Gln Pro Thr Gln Ser Tyr Gln Asp Gly Phe Glu Lys Gln Tyr
 195 200 205
 Val Thr Tyr Leu Gln Gln Asn Asp Ala Leu Tyr Gln Thr Ala Val Glu
 210 215 220
 Asp Ser Asn Ser Ser Tyr Arg Gln Ala Ile Trp Val Leu Ile Ser Val
 225 230 235 240
 Leu Ala Ala Val Leu Val Val Ile Val Ala Val Trp Leu Gly Ile Arg
 245 250 255
 Gln Ala Leu Ile Ser Pro Leu Asn Arg Leu Ile Asp Ser Ile Arg His
 260 265 270

Ile Ala Ser Gly Asp Leu Val Lys Arg Ile Asp Val Glu Gly Ser Asn
 275 280 285
 Glu Met Gly Glu Leu Ala Asp Ser Leu Arg His Met Gln Gly Glu Leu
 290 295 300
 Val Arg Thr Val Gly Asp Val Arg Asn Gly Ala Asn Ala Ile Tyr Ser
 305 310 315 320
 Gly Ala Ser Glu Ile Ser Met Gly Asn Asn Asp Leu Ser Ser Arg Thr
 325 330 335
 Glu Gln Gln Ala Ala Ser Leu Glu Glu Thr Ala Ala Ser Met Glu Gln
 340 345 350
 Leu Thr Ala Thr Val Lys Gln Asn Ala Glu Asn Ala Arg Gln Ala Ser
 355 360 365
 Asn Leu Ala Leu Ser Ala Ser Glu Thr Ala Gln Lys Gly Gly Lys Val
 370 375 380
 Val Asp Asn Val Val Gln Thr Met Arg Asp Ile Ala Gly Ser Ser Gln
 385 390 395 400
 Lys Ile Ala Asp Ile Ile Ser Val Ile Asp Gly Ile Ala Phe Gln Thr
 405 410 415
 Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu
 420 425 430
 Gln Gly Arg Gly Phe Ala Val Val Ala Gly Glu Val Arg Asn Leu Ala
 435 440 445
 Gln Arg Ser Ala Gln Ala Ala Arg Glu Ile Lys Ser Leu Ile Glu Asp
 450 455 460
 Ser Val Gly Arg Val Glu Ile Gly Ser Thr Leu Val Glu Ser Ala Gly
 465 470 475 480
 Glu Thr Met Gly Glu Ile Val Asn Ala Val Thr Arg Val Thr Asp Ile
 485 490 495
 Met Gly Glu Ile Ala Ser Ala Ser Asp Glu Gln Ser Arg Gly Ile Asp
 500 505 510
 Gln Val Gly Leu Ala Val Ala Glu Met Asp Arg Val Thr Gln Gln Asn
 515 520 525
 Ala Ser Leu Val Glu Glu Ser Ala Ala Ala Ala Ala Leu Glu Glu
 530 535 540
 Gln Ala Ser Arg Leu Thr Gln Ala Val Ala Val Phe Arg Ile Gln Gln
 545 550 555 560
 Glu Gln Met Lys Ala Arg Glu Phe Ala Ser Ala Lys Ser Val Ala Ala
 565 570 575
 Pro Val Val Ala Arg Lys Pro Ala Thr Ala Asp Ala Gly Asp Asn Trp
 580 585 590
 Glu Thr Phe
 595

<210> 7989

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 7989

Cys Lys Gly Lys Val Met His Asp Ser Leu Thr Ile Ala Leu Leu Gln
 1 5 10 15
 Ala Arg Glu Ala Ala Met Gly Tyr Phe Arg Pro Ile Val Lys Arg His
 20 25 30
 Asn Leu Thr Glu Gln Gln Trp Arg Ile Val Arg Val Leu Ala Glu His
 35 40 45
 Pro Ser Met Asp Phe His Asp Leu Ala Phe Arg Thr Cys Ile Leu Arg
 50 55 60
 Pro Ser Leu Thr Gly Ile Leu Thr Arg Met Glu Arg Asp Gly Leu Val
 65 70 75 80
 Leu Arg Leu Lys Pro Val Asn Asp Gln Arg Lys Leu Tyr Val Ser Leu
 85 90 95

Thr Lys Glu Gly Asn Ala Leu Tyr Gln Arg Ala Gln Ala Gln Val Glu
 100 105 110
 Glu Ala Tyr Gln Gln Ile Glu Ala Glu Tyr Thr Pro Glu Lys Met Thr
 115 120 125
 Gln Leu Thr Ala Leu Leu Glu Glu Phe Ile Glu Leu Gly Asn Arg His
 130 135 140
 Ile Ala Ala Arg Asp Glu Glu
 145 150

<210> 7990

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7990

Phe Cys Val Val Val Trp Phe Cys Pro Ala Pro Phe Leu Ala Ala Lys
 1 5 10 15
 Ala Gln Leu Ile Phe Asn Val Ile Glu Ser Phe Ser Gln Val Ile Phe
 20 25 30
 Gly Ile Ile Asn Met Ile Met Arg Leu Ala Pro Ile Gly Ala Phe Gly
 35 40 45
 Ala Met Ala Phe Thr Ile Gly Lys Tyr Gly Val Gly Thr Leu Val Gln
 50 55 60
 Leu Gly Gln Leu Ile Val Cys Phe Tyr Ile Thr Cys Ile Leu Phe Val
 65 70 75 80
 Val Val Val Leu Gly Ser Ile Ala Arg Ala Thr Gly Phe Ser Ile Phe
 85 90 95
 Lys Phe Ile Arg Tyr Ile Arg Glu Glu Leu Leu Ile Val Leu Gly Thr
 100 105 110
 Ser Ser Ser Glu Ser Ala Leu Pro Arg Met Leu Asp Lys Met Glu Lys
 115 120 125
 Leu Gly Cys Arg Lys Ser Val Val Gly Leu Val Ile Pro Thr Gly Tyr
 130 135 140
 Ser Phe Asn Leu Asp Gly Thr Ser Ile Tyr Leu Thr Met Ala Ala Val
 145 150 155 160
 Phe Ile Ala Gln Ala Thr Asn Ser His Met Asp Ile Phe His Gln Ile
 165 170 175
 Thr Leu Leu Val Val Leu Leu Leu Ser Ser Lys Gly Ala Ala Gly Val
 180 185 190
 Thr Gly Ser Gly Phe Ile Val Leu Ala Ala Thr Ile Ser Ala Val Gly
 195 200 205
 His Leu Pro Val Ala Gly Leu Ala Leu Ile Leu Gly Ile Asp Arg Phe
 210 215 220
 Met Ser Glu Ala Arg Ala Leu Thr Asn Leu Val Gly Asn Gly Val Ala
 225 230 235 240
 Thr Ile Val Val Ala Lys Trp Val Lys Glu Leu Asp His Lys Lys Leu
 245 250 255
 Asn Asp Thr Leu Asn Asn Arg Thr Ser Glu Asp Lys Thr Pro Gly Leu
 260 265 270
 Ser Ser
 275

<210> 7991

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 7991

Ser Gly Val His Met Gln Gly Thr Lys Ile Arg Leu Leu Thr Gly Gly
 1 5 10 15
 Leu Leu Met Met Ala Ala Ala Ser Tyr Val Gln Ala Asp Ala Leu Gln

			20				25				30				
Pro	Asp	Pro	Ala	Trp	Gln	Gln	Gly	Thr	Leu	Ala	Asn	Gly	Phe	Gln	Trp
		35					40					45			
Gln	Val	Leu	Ser	Thr	Pro	Gln	Arg	Pro	Ser	Asp	Arg	Ile	Glu	Ile	Arg
		50			55				60						
Leu	Ser	Val	Asn	Thr	Gly	Ser	Leu	Thr	Glu	Ser	Thr	Gln	Gln	Thr	Gly
65					70			75						80	
Leu	Ser	His	Phe	Ile	Pro	Arg	Leu	Ala	Leu	Thr	Gln	Ser	Gly	Ser	Leu
				85					90					95	
Gln	Ala	Val	Gln	Val	Arg	Ser	Leu	Trp	Gln	Gln	Ala	Ile	Asp	Pro	Lys
		100						105					110		
Arg	Pro	Leu	Pro	Pro	Ala	Val	Val	Ser	Tyr	Asp	Tyr	Thr	Met	Phe	Asn
		115			120				125						
Leu	Ser	Leu	Pro	Asn	Asn	Arg	Asn	Asp	Leu	Leu	Lys	Glu	Ala	Leu	Thr
130				135				140							
Tyr	Leu	Ser	Asp	Ala	Thr	Gly	Lys	Leu	Ala	Ile	Thr	Pro	Glu	Thr	Val
145					150			155						160	
Asn	Tyr	Ala	Leu	Ser	Asn	Ser	Asp	Met	Val	Ala	Thr	Trp	Pro	Thr	Asp
				165			170						175		
Thr	Lys	Glu	Gly	Trp	Trp	Arg	Tyr	Arg	Leu	Lys	Gly	Ser	Thr	Leu	Leu
		180				185						190			
Gly	His	Asp	Pro	Ala	Glu	Pro	Leu	Lys	Gln	Pro	Val	Asp	Ala	Glu	Gln
		195			200				205						
Val	Lys	Ser	Phe	Tyr	Gln	Gln	Trp	Tyr	Thr	Pro	Asp	Ala	Met	Thr	Leu
210				215				220							
Ile	Val	Val	Gly	Asn	Val	Asp	Ser	Arg	Ala	Val	Ile	Glu	Gln	Ile	Asn
225					230			235						240	
Lys	Ala	Phe	Gly	Asp	Leu	Lys	Gly	Lys	Arg	Glu	Thr	Pro	Ala	Pro	Val
				245			250						255		
Pro	Thr	Leu	Ser	Pro	Leu	Arg	Pro	Glu	Thr	Val	Ser	Ile	Met	Thr	Asp
		260				265				270					
Thr	Val	Arg	Gln	Asp	Arg	Leu	Ser	Met	Met	Trp	Asp	Thr	Ala	Trp	Gln
		275				280				285					
Pro	Ile	Arg	Glu	Ser	Ser	Ala	Leu	Leu	Arg	Tyr	Trp	Arg	Ala	Asp	Leu
290				295				300							
Ala	Arg	Glu	Ala	Leu	Phe	Trp	His	Val	Gln	Gln	Thr	Leu	Ser	Lys	Asn
305					310			315						320	
Asn	Val	Lys	Asp	Ile	Gly	Leu	Gly	Phe	Asp	Cys	Arg	Val	Leu	Phe	Gln
				325			330						335		
Arg	Ala	Gln	Cys	Ala	Ile	Asn	Val	Glu	Ser	Pro	Gly	Asp	Lys	Leu	Asn
		340				345				350					
Ala	Asn	Leu	Gly	Val	Val	Ala	Lys	Glu	Leu	Ala	Lys	Val	Arg	Lys	Glu
		355				360				365					
Gly	Leu	Ser	Glu	Glu	Glu	Phe	Asn	Ala	Leu	Val	Ala	Gln	Lys	Ser	Leu
370				375				380							
Glu	Leu	Gln	Lys	Leu	Phe	Ala	Thr	Tyr	Ala	Arg	Ala	Asp	Thr	Asp	Ile
385					390										

<210> 7992
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 7992

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Leu Ser Asp Glu Ser Arg Lys Ala Ile Pro Tyr Asn Arg Thr Ser Glu
1      5      10      15
Met Lys Ser Glu Gln Val Ile Gln Arg Leu Ser Thr Thr Pro Glu Ala
20      25      30
Ser Ile Glu Asn Leu Gln Glu His Arg Tyr Trp Leu Gln Cys Glu Arg
35      40      45
Ala Tyr Thr Tyr Gln Pro Ile Tyr Arg Thr Asp Gly Arg Leu Met Ala
50      55      60
Ile Glu Val Leu Thr Val Val Thr His Pro Ser Asn Pro Ser Gln Arg
65      70      75      80
Ile Ala Pro Asp Arg Tyr Phe Ala Glu Val Ala Val Arg Gln Arg Ile
85      90      95
Asp Val Leu Glu Gln Leu Arg Met Leu Ala Thr Lys Gln Ala Phe
100     105     110
Phe Lys Gln His Gly Ile Leu Ala Ser Val Asn Val Asp Gly Pro Thr
115     120     125
Leu Met Ala Leu Arg Gln Asn Ala Thr Leu Gln Ala Leu Ile Ala Thr
130     135     140
Leu Pro Trp Met Arg Phe Glu Leu Val Glu His Val Gln Leu Pro Gln
145     150     155     160
Asp Ser Ser Phe Ala Ser Met Cys Glu Phe Gly Pro Leu Trp Leu Asp
165     170     175
Asp Phe Gly Thr Gly Met Ala Asn Phe Ser Ala Leu Ser Glu Val Arg
180     185     190
Tyr Asp Tyr Ile Lys Val Ala Arg Asp Leu Phe Ile Met Leu Arg Gln
195     200     205
Thr Pro Glu Gly Arg Asn Leu Phe Thr Met Leu Leu Gln Leu Met Asn
210     215     220
Arg Tyr Cys Gln Gly Val Ile Val Glu Gly Val Glu Thr Leu Glu Glu
225     230     235     240
Trp Arg Asp Val Gln Asn Ser Pro Ala Ala Ala Gln Gly Tyr Phe
245     250     255
Leu Ser Arg Pro Val Pro Met Asp Thr Leu Glu Lys Val Ile Thr Ser
260     265     270
Leu

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<210> 7993
 <211> 254
 <212> PRT
 <213> Enterobacter cloacae

<400> 7993

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Ile Met Ser Glu Arg Ile Ala Leu Val Thr Gly Gly Ser Arg Gly Leu
1      5      10      15
Gly Lys Asn Ala Val Leu Lys Leu Ala Ala Glu Gly Thr Gly Ile Ile
20      25      30
Leu Thr Trp Asn Asn Ser Gln Gln Glu Ala Gln Glu Val Val Arg Glu
35      40      45
Ile Glu Gly Lys Gly Gly Lys Ala Ala Ala Leu Gln Leu Asn Val Gly
50      55      60
Asp Thr Ala Ser Phe Ser Arg Phe Ala Gln Lys Val Lys Asp Thr Leu
65      70      75      80
Lys His Val Trp Gln Arg Asp Thr Phe Asp Tyr Leu Val Asn Asn Ala

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				85				90					95				
Gly	Thr	Gly	Leu	Tyr	Ala	Pro	Tyr	Thr	Glu	Thr	Thr	Glu	Ala	Gln	Phe		
			100					105					110				
Asp	Asp	Ala	Met	Asn	Ile	His	Phe	Lys	Gly	Pro	Phe	Phe	Leu	Thr	Gln		
		115					120					125					
Gln	Leu	Leu	Pro	Leu	Ile	Lys	Asp	Gly	Gly	Arg	Ile	Leu	Asn	Val	Ser		
		130				135					140						
Ser	Gly	Leu	Ala	Arg	Phe	Thr	Gln	Pro	Gly	Ser	Gly	Thr	Tyr	Ala	Ala		
145					150					155					160		
Met	Lys	Gly	Ala	Met	Glu	Val	Leu	Thr	Arg	Tyr	Gln	Ala	Lys	Glu	Leu		
				165					170						175		
Gly	Ala	Arg	Gly	Ile	Ser	Val	Asn	Ile	Ile	Ala	Pro	Gly	Ala	Ile	Glu		
			180					185					190				
Thr	Asp	Phe	Gly	Gly	Gly	Arg	Val	Arg	Asp	Asn	Ala	Glu	Leu	Asn	Gln		
		195					200					205					
Leu	Leu	Ala	Ser	Gln	Thr	Ala	Leu	Gly	Arg	Val	Gly	Leu	Pro	Asp	Asp		
		210				215					220						
Ile	Gly	Asp	Ala	Ile	Ala	Ala	Leu	Leu	Ser	Asp	Lys	Leu	Gly	Trp	Met		
225					230					235					240		
Asn	Ala	Gln	Arg	Ile	Glu	Val	Ser	Gly	Gly	Met	Phe	Leu					
				245					250								

<210> 7994

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7994

Phe	Val	Thr	Ser	Pro	Phe	Ile	Glu	Phe	Phe	Leu	Lys	Lys	Cys	Leu	Cys		
1				5				10						15			
Arg	Ile	Pro	Leu	Arg	Tyr	Ser	Gln	Arg	Ser	Lys	Thr	Met	Arg	Val	Ile		
		20					25						30				
Met	Phe	Asp	Arg	Gln	Ser	Leu	Phe	Ile	His	Gly	Ala	Met	Tyr	Ser	Leu		
		35					40					45					
Gln	Lys	Leu	Ile	Pro	Lys	Ile	Asp	Met	Thr	Gly	Thr	Arg	Gln	Thr	Asp		
		50				55					60						
Glu	Leu	Trp	Ala	Gln	Leu	Ser	Ala	Ser	Pro	Ser	Ala	Ile	Val	Met	Ile		
65					70					75					80		
Asp	Gly	Tyr	Leu	Ile	Arg	Asp	Asn	Gly	Val	Ala	Leu	Leu	Glu	Glu	Ile		
				85				90						95			
Met	Asp	Arg	Phe	Pro	Thr	Ser	Arg	Val	Val	Leu	Val	Leu	Thr	Lys	Lys		
			100					105					110				
Glu	Arg	Arg	Trp	Val	Glu	Gln	Met	Phe	Gln	Arg	Asn	Val	Val	Ala	Ile		
		115					120					125					
Ile	Pro	Arg	Asn	Ala	Asn	Pro	Glu	Arg	Phe	Ser	Ala	Val	Leu	Asp	Ser		
		130				135					140						
Val	Ser	Arg	Gly	Met	Val	Cys	Phe	Pro	Gly	Glu	Trp	Leu	Lys	Gln	His		
145					150					155					160		
Thr	Ser	Gln	Asp	Glu	Leu	Ala	Val	Leu	Ser	Glu	Arg	Gln	Arg	Glu	Val		
				165				170						175			
Leu	Lys	Leu	Leu	Ala	Ala	Gly	Glu	Ser	Asn	Lys	Glu	Ile	Gly	Arg	Asn		
			180				185						190				
Leu	Asn	Ile	Ser	Ala	Ala	Thr	Val	Lys	Ala	His	Leu	Glu	Thr	Leu	Phe		
		195					200					205					
Arg	Arg	Leu	Asp	Val	Lys	Asn	Arg	Thr	Gln	Ala	Ala	Met	Tyr	Tyr	Thr		
		210				215					220						
Arg	Ala	Thr	Ala														
225																	

<210> 7995

<211> 743

<212> PRT

<213> Enterobacter cloacae

<400> 7995

Ile	Asp	Asp	Leu	Pro	Gln	Phe	Thr	Ala	Glu	Arg	His	Arg	Leu	Pro	Ala
1				5					10					15	
Gly	Pro	Val	Ser	Ala	Ala	Pro	Pro	Gly	Ser	Phe	Pro	Pro	Arg	Leu	Ala
			20					25					30		
Leu	Lys	Ser	Ser	Thr	Leu	Asn	Pro	Ile	Thr	Glu	Gln	Tyr	Ala	Gln	Arg
		35				40						45			
Arg	Met	Arg	Ala	Ser	Phe	Thr	Tyr	Phe	Asn	Arg	Thr	Ala	Phe	Met	Thr
	50					55					60				
Asn	Pro	Leu	Leu	Thr	Pro	Phe	Ser	Leu	Pro	Pro	Phe	Ser	Lys	Ile	Leu
65					70					75					80
Pro	Glu	His	Val	Val	Pro	Ala	Val	Thr	Gln	Ser	Leu	Asp	Asn	Cys	Arg
				85					90					95	
Ala	Ala	Val	Glu	Ser	Val	Val	Ala	Gln	Gly	Gly	Pro	Tyr	Thr	Trp	Glu
			100					105					110		
Asn	Leu	Cys	Gln	Pro	Leu	Ala	Glu	Val	Asp	Asp	Val	Leu	Gly	Arg	Ile
		115					120					125			
Phe	Ser	Pro	Val	Ser	His	Leu	Asn	Ser	Val	Lys	Asn	Ser	Pro	Glu	Leu
	130					135					140				
Arg	Glu	Ala	Tyr	Glu	Gln	Thr	Leu	Pro	Leu	Leu	Ser	Glu	Tyr	Ser	Thr
145					150					155					160
Trp	Val	Gly	Gln	His	Glu	Gly	Leu	Tyr	Lys	Ala	Tyr	Arg	Asp	Leu	Arg
				165					170					175	
Asp	Gly	Asp	His	Tyr	Ala	Glu	Leu	Asn	Thr	Ala	Gln	Lys	Lys	Ser	Val
			180					185					190		
Asp	Asn	Ala	Leu	Arg	Asp	Phe	Glu	Leu	Ser	Gly	Ile	Gly	Leu	Pro	Lys
		195					200					205			
Glu	Lys	Gln	Val	Arg	Tyr	Gly	Glu	Ile	Ala	Ala	Arg	Leu	Ser	Glu	Leu
	210					215					220				
Gly	Asn	Gln	Tyr	Ser	Asn	Asn	Val	Leu	Asp	Ala	Thr	Met	Gly	Trp	Thr
225					230					235					240
Lys	Leu	Ile	Thr	Asp	Glu	Ser	Glu	Leu	Ala	Gly	Met	Pro	Glu	Ser	Ala
				245					250					255	
Leu	Ala	Ala	Ala	Lys	Ala	Gln	Ala	Glu	Ala	Lys	Glu	Gln	Glu	Gly	Phe
			260					265					270		
Leu	Leu	Thr	Leu	Asp	Ile	Pro	Ser	Tyr	Leu	Pro	Val	Met	Thr	Tyr	Cys
		275					280					285			
Asp	Asn	Gln	Ala	Leu	Arg	Glu	Glu	Met	Tyr	Arg	Ala	Tyr	Ser	Thr	Arg
	290					295					300				
Ala	Ser	Asp	Gln	Gly	Pro	Asn	Ala	Gly	Lys	Trp	Asp	Asn	Ser	Pro	Val
305					310					315					320
Met	Ala	Glu	Ile	Leu	Ala	Leu	Arg	His	Glu	Leu	Ala	Gln	Leu	Leu	Gly
				325					330					335	
Phe	Asp	Ser	Tyr	Ala	Asp	Lys	Ser	Leu	Ala	Thr	Lys	Met	Ala	Glu	Asn
			340					345					350		
Pro	Gln	Gln	Val	Leu	Asp	Phe	Leu	Thr	Asp	Leu	Ala	Lys	Arg	Ala	Arg
		355					360					365			
Pro	Gln	Gly	Glu	Lys	Glu	Leu	Ala	Gln	Leu	Arg	Ala	Phe	Ala	Lys	Ala
	370					375					380				
Glu	Phe	Gly	Val	Asp	Glu	Leu	Gln	Pro	Trp	Asp	Ile	Ala	Tyr	Tyr	Ser
385					390					395					400
Glu	Lys	Gln	Lys	Gln	His	Leu	Tyr	Ser	Ile	Ser	Asp	Glu	Gln	Leu	Arg
				405					410					415	
Pro	Tyr	Phe	Pro	Glu	Asn	Lys	Ala	Val	Asn	Gly	Leu	Phe	Glu	Val	Val
			420					425					430		
Lys	Arg	Ile	Tyr	Gly	Ile	Thr	Ala	Lys	Glu	Arg	Thr	Asp	Ile	Asp	Val
		435					440					445			
Trp	His	Pro	Asp	Val	Arg	Phe	Phe	Glu	Leu	Tyr	Asp	Asp	Lys	Asn	Glu

450 455 460
 Leu Arg Gly Ser Phe Tyr Leu Asp Leu Tyr Ala Arg Glu Asn Lys Arg
 465 470 475 480
 Gly Gly Ala Trp Met Asp Asp Cys Val Gly Gln Met Arg Lys Ala Asp
 485 490 495
 Gly Ser Leu Gln Lys Pro Val Ala Tyr Leu Thr Cys Asn Phe Asn Arg
 500 505 510
 Pro Val Ser Gly Lys Pro Ala Leu Phe Thr His Asp Glu Val Ile Thr
 515 520 525
 Leu Phe His Glu Phe Gly His Gly Leu His His Met Leu Thr Arg Ile
 530 535 540
 Glu Thr Ala Gly Val Ala Gly Ile Ser Gly Val Pro Trp Asp Ala Val
 545 550 555 560
 Glu Leu Pro Ser Gln Phe Met Glu Asn Trp Cys Trp Glu Pro Asp Ala
 565 570 575
 Leu Ala Phe Ile Ser Gly His Tyr Glu Thr Gly Glu Pro Leu Pro Lys
 580 585 590
 Glu Leu Leu Asp Lys Met Leu Ala Ala Lys Asn Tyr Gln Ala Ala Met
 595 600 605
 Phe Ile Leu Arg Gln Leu Glu Phe Gly Leu Phe Asp Phe Arg Leu His
 610 615 620
 Ala Glu Phe Ser Pro Glu Gln Gly Ala Lys Ile Leu Glu Thr Leu Ala
 625 630 635 640
 Glu Ile Lys Lys Gln Val Ala Val Ile Pro Gly Pro Thr Trp Gly Arg
 645 650 655
 Phe Pro His Ala Phe Ser His Ile Phe Ala Gly Gly Tyr Ala Ala Gly
 660 665 670
 Tyr Tyr Ser Tyr Leu Trp Ala Asp Val Leu Ala Ala Asp Ala Phe Ser
 675 680 685
 Arg Phe Glu Glu Glu Gly Ile Phe Asn Arg Glu Thr Gly Gln Ser Phe
 690 695 700
 Leu Asp Asn Ile Leu Thr Arg Gly Gly Ser Glu Glu Pro Met Glu Leu
 705 710 715 720
 Phe Lys Arg Phe Arg Gly Arg Glu Pro Gln Leu Asp Ala Met Leu Glu
 725 730 735
 His Tyr Gly Ile Lys Gly
 740

<210> 7996

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 7996

Ser Val Arg Ile Leu Lys Arg Glu Pro Asp Arg Leu Leu Val Ile Leu
 1 5 10 15
 Ser Leu Asn Cys Leu Ser Gly His Trp Gly Ala Val Ala Gln Glu Pro
 20 25 30
 Cys Phe Val Gly Gly Arg Arg Gly Gly Cys Met Ile Ser Thr Val Ala
 35 40 45
 Leu Phe Trp Ala Leu Cys Val Val Cys Ile Val Asn Met Ala Arg Tyr
 50 55 60
 Phe Ser Ser Leu Arg Ala Leu Leu Val Val Leu Arg Gly Cys Asp Pro
 65 70 75 80
 Leu Leu Tyr Gln Tyr Val Asp Gly Gly Gly Phe Phe Thr Ser His Gly
 85 90 95
 Gln Pro Ser Lys Gln Met Arg Leu Val Gly Tyr Ile Tyr Tyr Gln Arg
 100 105 110
 Tyr Arg Asp His His Asp Glu Glu Phe Ile Arg Arg Cys Glu Arg Leu
 115 120 125
 Arg Arg Gln Phe Ile Leu Thr Ser Ala Leu Cys Gly Leu Val Val Val

130 135 140
 Ser Met Ile Ala Leu Met Ile Trp His
 145 150

<210> 7997

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 7997

Asn Gly Phe Val Ile Ser Phe Tyr Ala Gly Ala Thr Thr Glu Glu Thr
 1 5 10 15
 Leu Gln Ser Ala Val Asn Glu Glu Asp Phe Asp Val Glu Arg Phe
 20 25 30
 Asp Ala Val Val Ile Gly Ala Gly Ala Ala Gly Met Phe Cys Ala Ala
 35 40 45
 Met Ala Gly Gln Ala Gly Arg Arg Val Leu Leu Leu Asp Asn Gly Lys
 50 55 60
 Lys Pro Gly Arg Lys Ile Leu Met Ser Gly Gly Gly Arg Cys Asn Phe
 65 70 75 80
 Thr Asn Leu Tyr Val Glu Pro Ala Ala Tyr Leu Ser Gln Asn Arg His
 85 90 95
 Phe Cys Lys Ser Ala Leu Ala Arg Tyr Thr Gln Trp Asp Phe Ile Glu
 100 105 110
 Leu Val Gly Lys His Gly Ile Ala Trp His Glu Lys Thr Leu Gly Gln
 115 120 125
 Leu Phe Cys Asp Asp Ser Ala Gln Gln Ile Val Asp Met Leu Val Ala
 130 135 140
 Glu Cys Glu Lys Gly Gly Val Val Met Arg Leu Arg Thr Glu Val Leu
 145 150 155 160
 Asp Val Ala Arg Asp Glu Gln Gly Tyr Thr Leu Gln Leu Asn Gly Glu
 165 170 175
 Thr Val Ser Ala Asp Asn Leu Val Ile Ala Ser Gly Gly Leu Ser Met
 180 185 190
 Pro Gly Leu Gly Ala Ser Pro Phe Gly Tyr Lys Ile Ala Glu Gln Phe
 195 200 205
 Gly Leu Lys Val Leu Pro Thr Arg Ala Gly Leu Val Pro Phe Thr Leu
 210 215 220
 His Lys Pro Leu Leu Glu Gln Leu Gln Thr Leu Ser Gly Val Ser Val
 225 230 235 240
 Pro Ser Val Ile Thr Ala Glu Asp Gly Thr Val Phe Arg Glu Asn Leu
 245 250 255
 Leu Phe Thr His Arg Gly Leu Ser Gly Pro Ala Val Leu Gln Ile Ser
 260 265 270
 Ser Tyr Trp Gln Pro Gly Glu Phe Val Ser Val Asn Leu Val Pro Asp
 275 280 285
 Cys Asp Leu Asp Ala Phe Leu Asn Glu Gln Arg Ala Ala His Pro Asn
 290 295 300
 Gln Ser Leu Lys Asn Thr Leu Ala Met Gln Leu Pro Lys Arg Leu Val
 305 310 315 320
 Glu Cys Leu Gln Val Leu Gly Gln Ile Pro Asp Val Ala Leu Lys Gln
 325 330 335
 Leu Asn Ser Arg Glu Gln Glu Thr Leu Val Glu Thr Leu Thr Asn Trp
 340 345 350
 Arg Val Gln Pro Asn Gly Thr Glu Gly Tyr Arg Thr Ala Glu Val Thr
 355 360 365
 Leu Gly Gly Val Asp Thr Asn Glu Leu Ser Ser Arg Thr Met Glu Ala
 370 375 380
 Arg Asn Val Pro Gly Leu Tyr Phe Ile Gly Glu Val Met Asp Val Thr
 385 390 395 400
 Gly Trp Leu Gly Gly Tyr Asn Phe Gln Trp Ala Trp Ala Ser Ala Trp

405 410 415
 Ala Cys Ala Gln Ala Leu Ala Asp Val Arg Gly Gln
 420 425

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<210> 7998
<211> 287
<212> PRT
<213> Enterobacter cloacae
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<400>	7998														
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Ala	Ala	Ser	Arg 20	Ser	Trp	Met	Arg	Cys 25	Trp	Ser	Ile	Thr	Glu 30	Ser	Lys
Ala	Asp	Cys 35	Tyr	Val	Lys	Ile	Cys 40	Leu	Val	Asp	Glu	Thr 45	Gly	Ala	Gly
Asp	Gly 50	Ala	Leu	Ser	Val	Leu 55	Ala	Ala	Arg	Trp	Gly 60	Leu	Glu	His	Asp
Glu 65	Asp	Asn	Leu	Met 70	Ala	Leu	Val	Met	Thr 75	Pro	Glu	His	Leu	Glu 80	Leu
Arg	Lys	Arg	Asp	Glu 85	Pro	Lys	Leu	Gly	Gly 90	Ile	Phe	Val	Asp	Phe 95	Val
Gly	Gly	Ala	Met 100	Ala	His	Arg	Arg	Lys 105	Phe	Gly	Gly	Gly	Arg 110	Gly	Glu
Ala	Val	Ala 115	Lys	Ala	Val	Gly 120	Ile	Lys	Gly	Ser	Tyr	Leu 125	Pro	Asp	Val
Val	Asp 130	Ala	Thr	Ala	Gly 135	Leu	Gly	Arg	Asp	Ala	Phe	Val 140	Leu	Ala	Ser
Val 145	Gly	Cys	Arg	Val 150	Met	Leu	Glu	Arg	Asn 155	Pro	Val	Val	Ala	Ala 160	Ala
Leu	Leu	Asp	Asp	Gly 165	Leu	Thr	Arg	Gly	Tyr 170	Ala	Asp	Pro	Glu	Ile 175	Gly
Ser	Trp	Leu	Gln 180	Glu	Arg	Leu	Gln 185	Leu	Ile	His	Ala	Ser	Ser 190	Leu	Thr
Ala	Leu	Thr 195	Asp	Ile	Thr	Pro	Arg 200	Pro	Gln	Val	Val	Tyr 205	Leu	Asp	Pro
Met	Phe 210	Pro	His	Lys	Gln 215	Lys	Ser	Ala	Leu	Val	Lys 220	Glu	Met	Arg	
Val 225	Phe	Gln	Ser	Leu 230	Val	Gly	Pro	Asp	Leu 235	Asp	Ala	Asp	Gly	Leu 240	Leu
Glu	Pro	Ala	Arg	Gln 245	Leu	Ala	Thr	Lys	Arg 250	Val	Val	Val	Lys	Arg 255	Pro
Asp	Tyr	Ala	Pro 260	Pro	Leu	Ala	Asp	Val 265	Ala	Thr	Thr	Asn	Ala 270	Val	Thr
Thr	Lys	Gly 275	His	Arg	Phe	Asp 280	Ile	Tyr	Ser	Gly	Thr	Pro 285	Glu		

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<210> 7999
<211> 284
<212> PRT
<213> Enterobacter cloacae
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<400> 7999															
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Glu	Asn	Ala	Leu	Gly	Asp	Gly	Ile	Gly	Val	Gly	Tyr	Gly	Gln	Ser	Tyr
			20					25					30		
Gln	Pro	Trp	Leu	Arg	Ala	Gln	Asp	Val	Lys	Ser	Arg	Gly	Asn	Arg	Ser
			35				40					45			
Ile	Val	Phe	Gly	Leu	Lys	Thr	Phe	Arg	Asn	His	His	Leu	Leu	Ser	Ser
	50					55					60				

Val	Glu	Ser	Asn	Phe	Phe	Tyr	Leu	Ala	Glu	Phe	Asn	Asp	Ser	Val	Ile
65					70					75					80
Asp	Ile	Arg	Glu	Gln	Phe	Pro	Leu	Phe	Pro	Leu	Arg	Leu	Thr	Gln	Gln
				85					90					95	
Ile	Ala	Asn	His	Leu	His	Phe	Gln	His	Pro	Met	Val	Arg	Gly	Val	Arg
			100					105					110		
Gly	Val	Pro	Val	Glu	Val	Leu	Asn	Val	Met	Thr	Thr	Asp	Phe	Leu	Leu
		115					120					125			
Thr	Leu	Arg	Thr	Pro	Glu	Gly	Gly	Leu	Arg	Tyr	Lys	Ala	Ile	Ala	Val
	130					135					140				
Lys	His	Asn	Glu	Ser	Ile	Pro	Glu	Arg	Glu	Ala	Gln	Lys	Leu	Glu	Ile
145					150					155					160
Glu	Arg	Met	Phe	Trp	Gln	Leu	Ile	Asp	Val	Glu	Phe	Gln	Ile	Tyr	Val
			165					170						175	
Gly	Ser	Glu	Leu	Asn	Asn	Val	Val	Gly	Lys	Asn	Ile	Cys	Trp	Ala	Thr
		180						185					190		
Ser	Val	Leu	Arg	Asp	Gly	Ser	Glu	Phe	Tyr	Asp	Lys	Tyr	Pro	Leu	Asp
		195					200					205			
Lys	Ile	Leu	Trp	Lys	Leu	Lys	Pro	Asp	Val	Tyr	Pro	Ile	Val	Gly	Leu
	210				215						220				
Arg	Ala	Met	Ile	Ser	Ser	Ile	Phe	Gly	Val	Asp	Ala	Gln	Glu	Ala	Met
225					230					235					240
Met	Leu	Leu	Gln	Ala	Met	Ile	Gly	Leu	Lys	Met	Ile	Asn	Val	Asp	Leu
			245					250						255	
Ser	Tyr	Pro	Ile	Leu	Glu	Thr	Gly	Leu	Ile	Lys	Ile	Ile	Ser	Asn	Asp
		260					265						270		
His	Tyr	Ile	Gly	Leu	Asn	Ala	Asn	Gly	Tyr	Tyr					
		275					280								

<210> 8000

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 8000

Gly	Arg	Arg	Ile	Met	Asn	Leu	Ile	Arg	Arg	Val	Ser	Ala	Ile	Tyr	Lys
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Glu	Gln	Glu	Leu	Pro	Glu	Tyr	Arg	Gly	Asn	Pro	Leu	Ile	Glu	Ala	Leu
			20					25					30		
Pro	Glu	Ala	Leu	Thr	Glu	Asp	Glu	Val	Leu	Leu	Glu	Met	Ser	Tyr	Phe
		35					40					45			
Pro	Glu	Ile	Asp	Glu	Lys	Ile	Arg	Trp	Thr	Ala	Pro	Ala	Asn	Val	Arg
	50				55					60					
Glu	Gln	Tyr	Val	Glu	Arg	Ile	Lys	Lys	Phe	Arg	Cys	Pro	Gln	Thr	Asn
65				70					75						80
Leu	Ile	Gln	Ala	Tyr	Lys	Met	Ile	Leu	Arg	Ala	Leu	Arg	Glu	Ser	Tyr
			85					90					95		
Ala	Ala	Arg	Asn	Pro	Leu	Lys	Ser	Gly	Thr	Ile	Gln	Tyr	Leu	His	Tyr
			100					105					110		
Tyr	Gly	Asn	Glu	Arg	Pro	Asp	Ile	Glu	Pro	Glu	Ser	Gly	Tyr	Phe	Lys
		115				120						125			
Ser	Gln	Ala	Glu	Ile	Ile	Thr	Ile	Val	Gly	Met	Ser	Gly	Ser	Gly	Lys
	130					135						140			
Thr	Thr	Met	Ile	Glu	Gln	Val	Met	Asp	His	Phe	Pro	Gln	Ile	Ile	Glu
145				150					155						160
His	Ser	Ser	Tyr	Lys	Gly	Val	Phe	Pro	Gly	Phe	Ser	Lys	Gln	Ile	Val
			165					170						175	
Trp	Val	Lys	Ile	Asn	Cys	Pro	Tyr	Asn	Ser	Ser	Val	Arg	Asp	Leu	Cys
		180						185					190		
Glu	Glu	Ile	Leu	Gln	Lys	Leu	Asp	Asp	Ala	Ile	Gly	Ile	Glu	Arg	Thr
		195					200					205			

Thr	Pro	Glu	Ile	Arg	Asn	Gly	Ala	Leu	Ala	Arg	Gln	Ile	Ala	Gln	Arg
	210					215					220				
Ile	Lys	Ser	Ser	Phe	Leu	Gly	Ile	Leu	Val	Ile	Asp	Glu	Met	Gln	Arg
225					230					235					240
Leu	Lys	Phe	Ser	Arg	Thr	Gly	Gly	Glu	Ser	Lys	Leu	Ile	Asp	Phe	Leu
				245					250					255	
His	Glu	Ile	Val	Asp	Ser	Met	Gly	Val	Ser	Met	Val	Phe	Cys	Gly	Asn
			260					265					270		
His	Pro	Phe	Asp	Glu	Thr	Leu	Thr	Lys	Lys	Met	Arg	Ile	Ala	Arg	Arg
		275					280					285			
Ala	Glu	Ser	Gly	Gly	Tyr	Met	Lys	Ile	Lys	Asn	Val	Arg	Tyr	Asp	Ser
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Gln	Asp	Trp	Gln	Ser	Phe	Ile	His	Tyr	Leu	Trp					
305					310					315					

<210> 8001

<211> 695

<212> PRT

<213> Enterobacter cloacae

<400> 8001

Thr	Ile	Val	Leu	Glu	Ala	Ser	Ser	Ser	Gly	Lys	Gly	Thr	Thr	Met	Thr
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Lys	Thr	Thr	Arg	Val	Ile	Ser	Trp	Thr	Ala	Gly	Ile	Phe	Leu	Leu	Leu
			20					25				30			
Ile	Val	Val	Leu	Ile	Ile	Ile	Ile	Ala	Thr	Phe	Asp	Trp	Asn	Arg	Leu
		35					40				45				
Lys	Pro	Thr	Ile	Asn	Gln	Lys	Val	Ser	Thr	Glu	Leu	Asn	Arg	Pro	Phe
	50					55				60					
Ala	Ile	Arg	Gly	Asp	Leu	Gly	Val	Val	Trp	Glu	Arg	Gln	Lys	Glu	Glu
65					70					75					80
Thr	Gly	Trp	Arg	Ser	Trp	Val	Pro	Trp	Pro	His	Val	His	Ala	Asp	Asp
				85				90						95	
Ile	Ile	Leu	Gly	Asn	Pro	Pro	Asp	Ile	Pro	Glu	Val	Thr	Met	Ile	His
			100					105					110		
Leu	Pro	Arg	Val	Glu	Ala	Thr	Leu	Ala	Pro	Leu	Ala	Leu	Leu	Thr	Lys
		115					120					125			
Thr	Val	Tyr	Leu	Pro	Trp	Ile	Lys	Leu	Gln	Gln	Pro	Asp	Ala	Arg	Leu
	130					135					140				
Ile	Arg	Leu	Ser	Glu	Lys	Asn	Asn	Asn	Trp	Thr	Phe	Asp	Leu	Ala	Ser
145					150					155					160
Ser	Gly	Asp	Lys	Asp	Gln	Asn	Ala	Gln	Pro	Ser	Ser	Trp	Ser	Phe	Arg
				165					170					175	
Leu	Asp	Asn	Ile	Leu	Phe	Asp	Arg	Gly	Arg	Ile	Ala	Ile	Asp	Asp	Lys
		180						185					190		
Val	Ser	Lys	Ala	Asp	Val	Glu	Ile	Leu	Val	Asp	Pro	Leu	Gly	Lys	Pro
		195					200					205			
Leu	Pro	Phe	Ser	Glu	Val	Thr	Gly	Ser	Lys	Ala	Lys	Gly	Asp	Asp	Ser
	210					215					220				
Lys	Ala	Gly	Asp	Tyr	Val	Phe	Gly	Leu	Thr	Ala	Lys	Gly	Arg	Tyr	Asn
225					230					235					240
Gly	Gln	Pro	Leu	Thr	Gly	Lys	Gly	Lys	Ile	Gly	Gly	Met	Leu	Ala	Leu
				245					250					255	
Arg	Ser	Glu	Gly	Thr	Pro	Phe	Pro	Val	Gln	Ala	Asp	Phe	Arg	Ser	Gly
			260					265					270		
Asn	Thr	Arg	Val	Ala	Phe	Val	Gly	Thr	Val	Asn	Asp	Pro	Met	Asn	Met
		275					280					285			
Gly	Gly	Val	Asp	Leu	Gln	Leu	Lys	Phe	Ala	Gly	Asp	Ser	Leu	Gly	Glu
	290					295					300				
Leu	Tyr	Asp	Leu	Thr	Gly	Val	Leu	Leu	Pro	Asp	Thr	Pro	Pro	Phe	Glu
305					310					315					320

Thr Asp Gly His Leu Val Ala Lys Ile Asn Thr Glu Lys Ser Ser Val
 325 330 335
 Phe Asp Tyr Arg Gly Phe Asn Gly Arg Ile Gly Asp Ser Asp Ile His
 340 345 350
 Gly Thr Leu Thr Tyr Thr Thr Gly Lys Pro Arg Pro Lys Leu Glu Gly
 355 360 365
 Asp Val Glu Ser Arg Gln Leu Arg Leu Ala Asp Leu Gly Pro Leu Ile
 370 375 380
 Gly Val Asp Ser Gly Lys Gly Thr Lys Ser Lys Glu Val Lys Lys Asp
 385 390 395 400
 Val Gln Pro Ala Gly Lys Val Leu Pro Tyr Asp Arg Phe Glu Thr Asp
 405 410 415
 Lys Trp Asp Val Met Asp Ala Asp Val Arg Phe Lys Gly Arg Lys Ile
 420 425 430
 Glu His Gly Ser Thr Leu Pro Leu Ser Asn Leu Ser Thr His Ile Ile
 435 440 445
 Leu Lys Asn Ala Asp Leu Arg Leu Gln Pro Leu Lys Phe Gly Met Ala
 450 455 460
 Gly Gly Thr Ile Ser Ser Asn Ile His Leu Glu Gly Asp Lys Lys Pro
 465 470 475 480
 Met Gln Gly Arg Ala Glu Ile Gln Ala Arg Arg Leu Lys Leu Lys Glu
 485 490 495
 Leu Met Pro Asp Val Glu Leu Met Gln Lys Thr Leu Gly Glu Met Asn
 500 505 510
 Gly Asp Ala Asp Ile Arg Gly Thr Gly Asn Ser Val Ala Ala Leu Leu
 515 520 525
 Gly Ser Gly Asn Gly Asn Leu Lys Leu Leu Met Asn Asp Gly Leu Val
 530 535 540
 Ser Arg Asn Leu Met Glu Ile Leu Gly Leu Asn Val Gly Asn Phe Ile
 545 550 555 560
 Ile Gly Gln Ile Phe Gly Asp Asp Glu Val Arg Val Asn Cys Ala Ala
 565 570 575
 Ala Asn Leu Asp Leu Val Asn Gly Val Ala Arg Pro Gln Ile Phe Ala
 580 585 590
 Phe Asp Thr Glu Asn Ala Val Ile Asn Val Thr Gly Thr Ala Ser Met
 595 600 605
 Ala Ser Glu Gln Leu Asp Leu Thr Ile Asp Pro Glu Ser Lys Gly Ile
 610 615 620
 Arg Ile Ile Thr Leu Arg Ser Pro Leu Tyr Val Arg Gly Thr Phe Lys
 625 630 635 640
 Asp Pro Gln Ala Gly Val Lys Ala Gly Pro Leu Ile Ala Arg Gly Ala
 645 650 655
 Val Ala Ala Ala Leu Ala Thr Leu Val Thr Pro Ala Ala Ala Leu Leu
 660 665 670
 Ala Leu Ile Ser Pro Ser Glu Gly Glu Ala Asn Gln Cys Arg Thr Ile
 675 680 685
 Leu Ser Gln Met Lys Lys
 690 695

<210> 8002

<211> 567

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (554)

<400> 8002

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Asp	Leu	Leu	Ala	Glu	Gly	Leu	Tyr	Arg	Val	Leu	Asp	Phe	Asp	Arg	Lys
			20					25					30		
Val	Asp	Leu	Leu	Ile	Leu	Phe	Lys	Ile	Lys	Ser	Glu	Arg	Thr	Gly	Lys
		35					40					45			
Pro	Ile	Pro	Phe	Ser	Phe	Ser	Met	Phe	Lys	Tyr	Tyr	Ile	Glu	Ser	Asn
	50					55					60				
Ser	Ile	Thr	Cys	Lys	Asp	Tyr	Ile	Tyr	Pro	Ser	Tyr	Met	Leu	Val	Asp
65					70					75					80
Glu	Lys	Glu	Leu	Thr	Asp	Lys	Asp	Arg	Gly	Arg	Arg	Asp	Glu	Asn	Tyr
				85					90					95	
Asn	Ile	Ile	Lys	Asp	Leu	Val	Asp	Asp	Arg	Met	Phe	Leu	Phe	Asp	Tyr
			100					105					110		
Ala	Leu	His	Lys	Lys	Ser	His	Leu	Leu	Met	Asp	Tyr	Ser	Arg	Asn	Lys
		115					120					125			
Lys	Ile	Ser	Gln	Tyr	Thr	Ile	Arg	Thr	Leu	Leu	Ala	Leu	Tyr	Trp	Arg
	130					135					140				
His	Gly	Gln	Asp	Ile	Tyr	Ala	Leu	Leu	Pro	Ala	Phe	Ser	Asn	Cys	Gly
145					150					155					160
Ala	Ala	Gly	Lys	Ser	Arg	Ile	Lys	His	Glu	Ile	Lys	Leu	Gly	Asn	Ser
			165						170					175	
Lys	Lys	Asn	Arg	Ala	Leu	Pro	Asn	Glu	Arg	Ser	Arg	Val	Phe	Ile	Leu
			180					185					190		
Asn	Glu	Arg	Asp	Ile	Asn	Asn	Ile	Arg	Lys	Ser	Leu	Ile	Thr	Tyr	His
	195						200					205			
Tyr	Lys	Val	Asn	Gly	Asp	Thr	Ile	Lys	Lys	Thr	Leu	Glu	Arg	His	Ile
	210					215					220				
Asp	Leu	Tyr	Phe	Arg	Asp	Glu	Ile	Lys	Thr	Ala	Asn	Leu	Glu	Asn	Arg
225					230					235					240
Ala	Pro	Tyr	Val	Pro	Ser	Leu	Lys	Gln	Phe	Ser	Tyr	Trp	Asn	Lys	Lys
			245						250					255	
Leu	Phe	Thr	Lys	Asp	Phe	Ser	Ile	Asn	Lys	Lys	Asn	Thr	Lys	Lys	Glu
			260					265					270		
Ile	Asp	Leu	Lys	Met	Arg	Ala	Leu	Leu	Gly	Ser	Val	Ala	Asn	Thr	Thr
	275						280					285			
Val	Leu	Pro	Gly	Asp	Val	Phe	Glu	Ile	Asp	Ser	Thr	Val	Ala	Asp	Val
	290					295					300				
His	Leu	Ile	Ser	Ser	Leu	Asn	Arg	Arg	Lys	Val	Ile	Gly	Arg	Pro	Thr
305					310					315					320
Ile	Tyr	Thr	Val	Val	Asp	Arg	Ala	Thr	Arg	Met	Ile	Val	Gly	Leu	His
			325						330					335	
Val	Ser	Leu	Tyr	His	Ala	Ser	Trp	Arg	Ala	Ala	Arg	Gln	Ala	Leu	Ala
			340					345					350		
Asn	Cys	Phe	Met	Pro	Lys	Lys	Glu	Tyr	Cys	Arg	Leu	Phe	Gly	Ile	Ser
		355					360					365			
Ile	Thr	Asp	Asp	Asp	Trp	Pro	Cys	Ser	His	Ile	Pro	Leu	Thr	Leu	Met
	370					375					380				
Cys	Asp	Asn	Gly	Glu	Met	Ile	Gly	Leu	Lys	Pro	Gln	Glu	Glu	Met	Thr
385					390					395					400
Pro	Leu	Thr	Lys	Leu	Glu	Phe	Ala	Pro	Val	Gly	Arg	Gly	Asp	Arg	Lys
			405						410					415	
Ser	Ile	Val	Glu	Arg	Cys	Phe	Gly	Ile	Leu	Asn	Asp	Glu	Val	Ile	His
			420					425					430		
Arg	Leu	Ile	Gly	Thr	Thr	Arg	Arg	Gly	Lys	Ile	Val	Lys	Gly	Glu	Pro
		435					440					445			
Thr	Pro	Gln	Ser	Arg	Ala	Cys	Leu	Thr	Ile	Gln	Glu	Val	Thr	Ser	Leu
	450					455					460				
Leu	Ile	Arg	Glu	Ile	Leu	Ala	His	Asn	Gln	Arg	Thr	Tyr	Glu	Glu	Leu
465					470					475					480
Ala	Tyr	Ile	Asn	Pro	Leu	Leu	Ile	Glu	Asn	Asp	Leu	Val	Ile	Ser	Pro
			485						490					495	
Lys	Asn	Ser	Trp	Met	Ile	Ser	Leu	Lys	His	Gly	Arg	Phe	Ser	Ala	Arg

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<210> 8003
<211> 502
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Pro	Met	Leu 20	His 5	Leu	Phe	Ala	Gly 25	Leu 10	Asp	Leu	His	Thr 30	Gly 15	Leu
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Gly	Phe	His 35	Asp	Thr	Ala	Asn 40	Ala	Val	Ala	Thr	Val	Ile 45	Tyr	Thr	Arg
Ala	Met 50	Arg	Ser	Gln	Leu	Ala 55	Val	Val	Met	Ala	Ala 60	Val	Phe	Asn	Phe
Phe 65	Gly	Val	Leu	Leu	Gly 70	Gly	Leu	Ser	Val	Ala 75	Tyr	Ala	Ile	Val	His 80
Met	Leu	Pro	Thr	Asp 85	Leu	Leu	Leu	Asn	Val 90	Ser	Ser	Gly	His	Gly 95	Leu
Ala	Met	Val	Phe 100	Ser	Met	Leu	Leu	Ala 105	Ala	Ile	Ile	Trp	Asn 110	Leu	Gly
Thr	Trp	Tyr 115	Phe	Gly	Leu	Pro	Ala 120	Ser	Ser	Ser	His	Thr 125	Leu	Ile	Gly
Ala	Ile	Ile	Gly 130	Ile	Gly	Leu	Thr 135	Asn	Ala	Leu	Met 140	Thr	Gly	Thr	Ser
Val 145	Val	Asp	Ala	Leu	Asn 150	Ile	Pro	Lys	Val	Leu 155	Gly	Ile	Phe	Gly	Ser 160
Leu	Ile	Ile	Ser	Pro 165	Ile	Val	Gly	Leu	Val 170	Val	Ala	Gly	Gly	Leu 175	Ile
Phe	Ile	Leu	Arg 180	Arg	Tyr	Trp	Ser	Asn 185	Thr	Lys	Lys	Arg	Ala 190	Arg	Ile
His	Leu	Thr 195	Pro	Ala	Glu	Arg	Glu 200	Lys	Lys	Asp	Gly	Lys 205	Lys	Lys	Pro
Pro	Phe 210	Trp	Thr	Arg	Ile	Ala 215	Leu	Ile	Ile	Ser	Ala 220	Ile	Gly	Val	Ala
Phe 225	Ser	His	Gly	Ala	Asn 230	Asp	Gly	Gln	Lys	Gly 235	Ile	Gly	Leu	Val	Met 240
Leu	Val	Leu	Ile	Gly 245	Val	Ala	Pro	Ala	Gly 250	Phe	Val	Val	Asn	Met 255	Asn
Ala	Ser	Gly	Tyr 260	Glu	Ile	Thr	Arg	Thr 265	Arg	Asp	Ala	Val	Asn	Asn	Val
Glu	Thr	Tyr 275	Phe	Gln	Gln	His	Pro 280	Asp	Leu	Leu	Lys	Lys 285	Ala	Thr	Gly
Val	Asp 290	Gln	Leu	Ile	Pro	Ser 295	Pro	Glu	Ser	Gly	Ala 300	Thr	Thr	Ala	Pro
Gly 305	Glu	Phe	His	Cys	His 310	Pro	Ala	Asn	Ala	Ile 315	Asn	Ala	Leu	Glu	Arg 320
Ala	Lys	Gly	Met	Leu 325	Ala	Asp	Ile	Glu	Ser 330	Tyr	Asp	Lys	Leu	Ala 335	Val
Glu	Gln	Arg	Gly 340	Gln	Leu	Arg	Arg	Ile 345	Met	Leu	Cys	Ile	Ser	Asp	Val
Thr	Asp	Lys	Val	Ala	Lys	Leu	Pro	Glu	Val	Asn	Ala	Asp	Asp	Gln	Arg

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<210> 8004
<211> 481
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Gly	Ser	Cys	Arg 5	Ser	Asn	Arg	Ser	His 10	Arg	Trp	Lys	Leu	Leu 15	Ile
Ser	Gly	Ile	Gln 20	Ser	Arg	Gln	Phe	Thr 25	Ile	Lys	Asp	Asn	Ala 30	Met	Thr
Lys	His	Tyr 35	Asp	Tyr	Ile	Ala	Ile 40	Gly	Gly	Gly	Ser	Gly 45	Gly	Ile	Ala
Ser	Ile 50	Asn	Arg	Ala	Ala	Met 55	Tyr	Gly	Gln	Lys	Cys 60	Ala	Leu	Ile	Glu
Ala 65	Lys	Glu	Leu	Gly 70	Gly	Thr	Cys	Val	Asn 75	Val	Gly	Cys	Val	Pro 80	Lys
Lys	Val	Met	Trp	His 85	Ala	Ala	Gln	Ile	Arg 90	Glu	Ala	Ile	His	Met 95	Tyr
Gly	Pro	Asp	Tyr 100	Gly	Phe	Asp	Thr	Thr 105	Ile	Asn	His	Phe	Asp 110	Trp	Asp
Lys	Leu	Ile 115	Ala	Ser	Arg	Thr	Ala 120	Tyr	Ile	Asp	Arg	Ile 125	His	Thr	Ser
Tyr	Asp	Asn 130	Val	Leu	Gly	Lys 135	Asn	Asn	Val	Asp	Val 140	Ile	Arg	Gly	Phe
Ala 145	Arg	Phe	Val	Asp 150	Ala	Lys	Thr	Ile	Glu 155	Val	Asn	Gly	Glu	Thr 160	Ile
Thr	Ala	Asp	His 165	Ile	Leu	Ile	Ala	Thr	Gly 170	Gly	Arg	Pro	Ser	His 175	Pro
His	Ile	Pro	Gly 180	Ala	Glu	Tyr	Gly	Ile 185	Asp	Ser	Asp	Gly 190	Phe	Phe	Glu
Leu	Pro	Ala 195	Leu	Pro	Glu	Arg	Val 200	Ala	Ile	Val	Gly	Ala 205	Gly	Tyr	Ile
Ala	Val 210	Glu	Leu	Ala	Gly	Val 215	Ile	Asn	Gly	Leu	Gly 220	Ala	Glu	Ala	His
Leu 225	Phe	Val	Arg	Lys 230	His	Ala	Pro	Leu	Arg	Ser 235	Phe	Asp	Pro	Leu	Ile
Val	Asp	Thr	Leu 245	Val	Glu	Val	Met	Asn	Ala 250	Glu	Gly	Pro	Thr	Leu 255	His
Thr	Asn	Ala	Val 260	Pro	Lys	Ala	Val	Val 265	Lys	Asn	Ala	Asp	Gly 270	Ser	Leu
Thr	Leu	Glu	Leu	Glu	Asp	Gly	Arg	Ser	Gln	Thr	Val	Asp	Cys	Leu	Ile

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<210> 8005
<211> 444
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Asn	Ile	Met	Gln 5	Ala	Thr	Ala	Thr	Thr 10	Leu	Asn	Glu	Gly	Ala 15	Glu
His	Val	Pro	Val	Asn	Ser	Arg	Asn	Lys	Val	Val	Val	Ala	Ser	Leu	Ile
			20					25					30		
Gly	Thr	Ala	Ile	Glu	Phe	Phe	Asp	Phe	Tyr	Ile	Tyr	Ala	Thr	Ala	Ala
		35					40					45			
Val	Ile	Val	Phe	Pro	His	Ile	Phe	Phe	Pro	Gln	Gly	Asp	Pro	Thr	Ala
	50					55					60				
Ala	Thr	Leu	Gln	Ser	Leu	Ala	Thr	Phe	Ala	Ile	Ala	Phe	Val	Ala	Arg
65					70					75					80
Pro	Ile	Gly	Ser	Ala	Val	Phe	Gly	His	Phe	Gly	Asp	Arg	Val	Gly	Arg
				85				90						95	
Lys	Val	Thr	Leu	Val	Ala	Ser	Leu	Leu	Thr	Met	Gly	Ile	Ser	Thr	Val
			100					105					110		
Ala	Ile	Gly	Leu	Leu	Pro	Thr	Tyr	Glu	Thr	Ile	Gly	Ile	Leu	Ala	Pro
		115					120					125			
Val	Leu	Leu	Ala	Leu	Ala	Arg	Phe	Gly	Gln	Gly	Leu	Gly	Leu	Gly	Gly
	130					135					140				
Glu	Trp	Gly	Gly	Ala	Ala	Leu	Leu	Ala	Thr	Glu	Asn	Ala	Pro	Ala	Arg
145					150					155					160
Lys	Arg	Ala	Leu	Tyr	Gly	Ser	Phe	Pro	Gln	Leu	Gly	Ala	Pro	Ile	Gly
				165					170					175	
Phe	Phe	Phe	Ala	Asn	Gly	Thr	Phe	Leu	Leu	Leu	Ser	Trp	Leu	Leu	Thr
			180					185					190		
Asp	Glu	Gln	Phe	Met	Ser	Trp	Gly	Trp	Arg	Ile	Pro	Phe	Val	Phe	Ser
		195					200					205			
Ala	Val	Leu	Val	Leu	Ile	Gly	Leu	Tyr	Val	Arg	Val	Ser	Leu	His	Glu

210		215		220
Thr Pro Val Phe Ala Lys	Val Ala Ala Ala Lys	Gln Val Lys Val		
225	230	235	240	
Pro Leu Gly Thr Leu Leu	Thr Arg His Leu Arg	Val Thr Val Leu Gly		
	245	250	255	
Thr Phe Ile Met Leu Ala	Thr Tyr Thr Leu Phe	Tyr Ile Met Thr Val		
	260	265	270	
Tyr Ser Met Thr Phe Ser	Thr Ala Ala Ala Pro	Val Gly Leu Gly Leu		
	275	280	285	
Pro Arg Asn Glu Val Leu	Trp Met Leu Met Met	Ala Val Ile Gly Phe		
	290	295	300	
Gly Val Met Val Pro Ile	Ala Gly Leu Leu Ala	Asp Lys Phe Gly Arg		
305	310	315	320	
Arg Ser Ser Met Ile Val	Ile Thr Ser Leu Ile	Ile Leu Phe Ala Leu		
	325	330	335	
Phe Val Phe Pro Pro Leu	Leu Gly Ser Gly Ser	Pro Ala Leu Val Met		
	340	345	350	
Ala Tyr Leu Leu Ile Gly	Leu Ser Leu Met Gly	Leu Thr Phe Gly Pro		
	355	360	365	
Met Gly Ala Leu Leu Pro	Glu Leu Phe Pro Thr	Glu Val Arg Tyr Thr		
	370	375	380	
Gly Ala Ser Phe Ser Tyr	Asn Val Ser Ser Ile	Leu Gly Ala Ser Val		
385	390	395	400	
Ala Pro Tyr Ile Ala Thr	Trp Leu Gln Ala Asn	Tyr Gly Leu Phe Tyr		
	405	410	415	
Val Gly Val Tyr Leu Ala	Ala Met Ala Ala Leu	Thr Leu Ile Ala Leu		
	420	425	430	
Leu Leu Thr His Glu Thr	Lys His Gln Ala Leu			
	435	440		

<210> 8006

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8006

Gly Arg Ser Asn Thr Met	Ala Tyr Lys His Ile	Leu Ile Ala Val Asp
1	5	10
Leu Ser Pro Glu Ser Lys	Val Leu Val Asp Lys	Ala Val Ser Met Ala
	20	25
Arg Pro Tyr Asn Ala Lys	Val Ser Leu Ile His	Val Asp Val Asn Tyr
	35	40
Ser Asp Leu Tyr Thr Gly	Leu Ile Asp Val Asn	Leu Gly Asp Met Gln
	50	55
Lys Arg Ile Ser Glu Glu	Thr His His Ala Leu	Ser Glu Leu Ser Thr
65	70	75
Asn Ala Gly Tyr Pro Ile	Thr Glu Thr Leu Ser	Gly Ser Gly Asp Leu
	85	90
Gly Gln Val Leu Val Asp	Ala Ile Lys Lys Tyr	Asp Met Asp Leu Val
	100	105
Val Cys Gly His His Gln	Asp Phe Trp Ser Lys	Leu Met Ser Ser Ala
	115	120
Arg Gln Leu Ile Asn Thr	Val His Val Asp Met	Leu Ile Val Pro Leu
	130	135
Arg Asp Glu Glu Asp Glu		
145	150	

<210> 8007

<211> 569

<212> PRT

<213> Enterobacter cloacae

<400> 8007

Lys	Ile	Ala	Gly	Lys	Asn	Pro	Tyr	Leu	Leu	Arg	Gln	Lys	Pro	Glu	Val
1				5				10						15	
Leu	Asn	Thr	Met	Phe	Asn	Gln	Lys	Leu	Gln	Thr	Ala	Glu	Asp	Ile	Glu
			20					25					30		
Phe	Asp	Ile	Ala	Glu	Glu	Leu	Arg	Tyr	Glu	Thr	Asp	Pro	Cys	Glu	Leu
			35					40				45			
Lys	Leu	Asp	Glu	Met	Ile	Glu	Ala	Glu	Pro	Glu	Pro	Glu	Met	Ile	Glu
			50				55				60				
Gly	Leu	Pro	Ala	Ser	Asp	Ala	Leu	Thr	Pro	Ala	Asp	Arg	Tyr	Leu	Glu
65					70					75					80
Leu	Phe	Glu	His	Val	Gln	Ser	Ser	Arg	Leu	Phe	Ala	Asp	Ser	Lys	Thr
				85					90					95	
Phe	Pro	Asp	Cys	Ala	Pro	Lys	Met	Asp	Pro	Leu	Asp	Ile	Leu	Ile	Arg
			100					105					110		
Tyr	Arg	Lys	Val	Arg	Arg	His	Arg	Asp	Phe	Asp	Leu	Ala	Arg	Phe	Val
			115					120					125		
Lys	Asn	His	Phe	Trp	Leu	Pro	Glu	Asp	Tyr	Ser	Lys	Glu	Tyr	Val	Ser
			130				135				140				
Asp	Pro	Gly	Leu	Ser	Leu	Lys	Glu	His	Ile	Asp	Asn	Leu	Trp	Pro	Val
145					150					155					160
Leu	Thr	Arg	Glu	Pro	Gln	Asp	His	Ile	Pro	Trp	Ser	Ser	Leu	Leu	Ala
				165					170					175	
Leu	Pro	Gln	Ala	Tyr	Ile	Val	Pro	Gly	Gly	Arg	Phe	Ser	Glu	Thr	Tyr
			180					185					190		
Tyr	Trp	Asp	Ser	Tyr	Phe	Ser	Met	Leu	Gly	Leu	Ala	Glu	Ser	Gly	Arg
			195				200					205			
Asn	Asp	Leu	Leu	Lys	Cys	Met	Ala	Asp	Asn	Phe	Ala	Trp	Leu	Ile	Glu
			210			215					220				
Arg	Tyr	Gly	His	Ile	Pro	Asn	Gly	Asn	Arg	Thr	Tyr	Tyr	Leu	Ser	Arg
225					230					235					240
Ser	Gln	Pro	Pro	Val	Phe	Ala	Leu	Met	Val	Glu	Leu	Phe	Glu	Glu	Asp
				245					250					255	
Gly	Val	Arg	Gly	Ala	Lys	Arg	Tyr	Leu	Glu	His	Leu	Lys	Met	Glu	Tyr
			260					265					270		
Ala	Phe	Trp	Met	Asp	Gly	Ala	Glu	Ser	Leu	Leu	Leu	Asn	Gln	Ala	Tyr
			275				280					285			
Arg	Ser	Ala	Val	Arg	Met	Pro	Asp	Gly	Ser	Leu	Leu	Asn	Arg	Tyr	Trp
			290			295					300				
Asp	Asp	Arg	Asp	Thr	Pro	Arg	Asp	Glu	Ser	Trp	Ile	Glu	Asp	Val	Glu
305					310					315					320
Thr	Ala	Arg	His	Ser	Gly	Arg	Pro	Pro	Asn	Glu	Val	Tyr	Arg	Asp	Leu
				325					330					335	
Arg	Ala	Gly	Ala	Ala	Ser	Gly	Trp	Asp	Tyr	Ser	Ser	Arg	Trp	Leu	Arg
			340					345					350		
Asp	Pro	Ala	Arg	Leu	Ala	Ser	Ile	Arg	Thr	Thr	Gln	Phe	Ile	Pro	Ile
			355				360					365			
Asp	Leu	Asn	Ala	Phe	Leu	Phe	Lys	Leu	Glu	Ser	Ala	Ile	Ala	Asn	Ile
			370			375					380				
Ser	Ala	Ser	Lys	Gly	Asp	Lys	Glu	Thr	Ala	Asp	Leu	Phe	Arg	Gln	Lys
385					390					395					400
Ala	Ser	Asp	Arg	Arg	Ala	Ala	Val	Asn	Arg	Tyr	Leu	Trp	Asp	Glu	Glu
				405					410					415	
Asn	Gly	Cys	Tyr	Arg	Asp	Tyr	Asp	Trp	Arg	Arg	Glu	Ala	Leu	Ala	Leu
			420					425					430		
Phe	Ser	Ala	Ala	Ser	Ile	Val	Pro	Leu	Tyr	Val	Gly	Met	Ala	Thr	His
			435				440					445			
Glu	Gln	Ala	Glu	Arg	Leu	Ser	Asp	Ala	Val	Lys	Ala	Arg	Leu	Leu	Thr
			450			455					460				
Pro	Gly	Gly	Ile	Leu	Ala	Thr	Glu	Tyr	Glu	Thr	Gly	Glu	Gln	Trp	Asp

465 470 475 480
 Lys Pro Asn Gly Trp Ala Pro Leu Gln Trp Met Ala Ile Gln Gly Phe
 485 490 495
 Lys Gln Tyr Gly Asn Asp Ser Leu Gly Asp Glu Ile Ala Trp Ser Trp
 500 505 510
 Leu His Thr Val Asn His Tyr Tyr Lys Thr His His Lys Leu Ile Glu
 515 520 525
 Lys Tyr His Ile Ala Ser Ser Thr Pro Arg Glu Gly Gly Gly Glu
 530 535 540
 Tyr Pro Leu Gln Asp Gly Phe Gly Trp Thr Asn Gly Val Val Arg Arg
 545 550 555 560
 Leu Ile Gly Leu Tyr Gly Glu Pro
 565

<210> 8008

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 8008

Glu Glu Thr Leu Met Thr Gly Tyr Ala Met Gln Ile Ser Ser Ala Ala
 1 5 10 15
 Ile Ala Leu Ile Lys Lys Gln Gln Gly Leu Ser Leu Glu Lys Tyr Arg
 20 25 30
 Asp Glu Lys Gly Ile Trp Val Ile Gly Tyr Gly His Val Ile Arg Gln
 35 40 45
 Trp Glu Lys Phe Asn Gly Leu Ile Thr Pro Thr Glu Ala Glu Asn Leu
 50 55 60
 Leu Cys Asn Asp Ile Gln Leu Cys Glu Ala Leu Arg Glu Met Asn
 65 70 75 80
 Lys Arg Pro Leu Thr Gln Gln Gln His Asp Ala Leu Ile Leu Thr Leu
 85 90 95
 Phe Ser Phe Gly Glu Glu Ser Pro Leu Pro Glu Lys Ile Leu Gln Ala
 100 105 110
 Val Ala Arg Val
 115

<210> 8009

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 8009

Pro Leu Pro Ser Gly Ala Cys Val Tyr Gly Val Ala Tyr Arg Thr His
 1 5 10 15
 Lys Arg Leu Arg Gly Leu Val Ala Ser Tyr Asn Ser Val Thr Ser Ser
 20 25 30
 Ser Thr Lys Arg Lys Met Arg Val Thr Pro Glu Asn Asn Pro Gln Arg
 35 40 45
 Pro Thr Gln His Leu Asp Tyr Glu Pro Ile Lys Lys Met Asp Asn Glu
 50 55 60
 Pro Glu Ala Pro Lys Glu Pro Gly Thr Ala Ser Lys Ala Leu Gly Thr
 65 70 75 80
 Val Thr Gly Ile Ala Glu Lys Ile Gln Gln Ile Pro Ala Ile Ala His
 85 90 95
 Leu Ile Arg Ala Ala Glu Arg Phe Asn Asp Arg Met Gly Asn Gln Phe
 100 105 110
 Gly Ala Ala Ile Thr Tyr Phe Ser Phe Leu Ser Met Ile Pro Ile Leu
 115 120 125
 Met Val Ser Phe Ala Ala Ala Gly Phe Val Leu Ala Ser His Pro Thr
 130 135 140

Leu Leu Gln Asp Ile Phe Asn Lys Ile Leu Thr Asn Val Ser Asp Gln
 145 150 155 160
 Thr Leu Ala Thr Thr Leu Lys Ser Thr Ile Asn Thr Ala Val Gln Gln
 165 170 175
 Arg Thr Thr Val Gly Ile Val Gly Leu Leu Ile Ala Leu Tyr Ser Gly
 180 185 190
 Val Asn Trp Met Gly Asn Leu Arg Glu Ala Ile Arg Ala Gln Ser Arg
 195 200 205
 Asp Val Trp Glu Arg Arg Pro Gln Asp Gln Glu Lys Ile Trp Val Lys
 210 215 220

225

<210> 8010

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8010

Leu Arg Asp Phe Ile Ser Leu Ile Gly Leu Leu Val Ala Leu Val Ile
 1 5 10 15
 Thr Leu Ser Ile Thr Ser Val Ala Gly Ser Ala Gln Gln Met Ile Ile
 20 25 30
 Ser Ala Leu Tyr Leu Asp Tyr Ile Glu Trp Leu Lys Pro Ala Trp Arg
 35 40 45
 Gly Ile Gly Leu Ala Ile Ser Ile Phe Ala Asn Tyr Leu Leu Phe Phe
 50 55 60
 Trp Ile Phe Trp Arg Leu Pro Arg His Arg Pro Arg Lys Lys Ala Leu
 65 70 75 80
 Ile Arg Gly Thr Leu Ile Ala Ala Ile Gly Phe Glu Val Ile Lys Ile
 85 90 95
 Val Met Thr Tyr Thr Leu Pro Ser Leu Val Lys Ser Pro Ser Gly Ala
 100 105 110
 Ala Phe Gly Ser Val Leu Gly Leu Met Ala Phe Phe Tyr Phe Phe Ala
 115 120 125
 Arg Leu Thr Leu Phe Cys Ala Ala Trp Ile Ala Thr Ala Glu Tyr Lys
 130 135 140
 Asp Asp Pro Arg Met Pro Gly Lys Thr His Arg
 145 150 155

<210> 8011

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 8011

Thr Val Ala Asn Arg Gln Phe Ser Gly Ile Ser Leu Pro Met Leu Ser
 1 5 10 15
 Tyr Arg His Ser Phe His Ala Gly Asn His Ala Asp Val Leu Lys His
 20 25 30
 Thr Val Gln Ser Leu Ile Ile Glu Ser Leu Lys Glu Lys Asp Lys Pro
 35 40 45
 Phe Leu Tyr Leu Asp Thr His Ala Gly Ala Gly Arg Tyr Gln Leu Ser
 50 55 60
 Gly Glu His Ala Glu Arg Thr Gly Glu Tyr Leu Glu Gly Ile Ala Arg
 65 70 75 80
 Ile Trp Gln Gln Asp Asp Leu Pro Ala Glu Leu Glu Pro Tyr Ile Gly
 85 90 95
 Val Val Asn His Phe Asn Arg Asn Gly Gln Leu Arg Tyr Tyr Pro Gly
 100 105 110
 Ser Pro Leu Ile Ala Arg Gln Leu Leu Arg Glu Gln Asp Ser Leu Gln

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      115      120      125
Leu Thr Glu Leu His Pro Ser Asp Phe Pro Leu Leu Arg Ser Glu Phe
  130      135      140
Gln Lys Asp Asn Arg Ala Arg Val Asp Lys Ala Asp Gly Tyr Gln Gln
  145      150      155      160
Leu Lys Ala Lys Leu Pro Pro Val Ser Arg Arg Gly Leu Val Leu Ile
      165      170      175
Asp Pro Pro Tyr Glu Ile Lys Thr Asp Tyr Gln Ala Val Val Thr Gly
      180      185      190
Ile Asn Glu Gly Tyr Lys Arg Phe Ala Thr Gly Thr Tyr Ala Leu Trp
      195      200      205
Tyr Pro Val Val Leu Arg Ala Gln Ile Lys Arg Met Ile Lys Asp Leu
      210      215      220
Glu Ala Thr Gly Ile Arg Lys Ile Leu Gln Ile Glu Leu Ala Val Arg
  225      230      235      240
Pro Asp Ser Asp Gln Arg Gly Met Thr Ala Ser Gly Met Ile Val Ile
      245      250      255
Asn Pro Pro Trp Lys Leu Glu Ala Gln Met Asn Asn Val Leu Pro Trp
      260      265      270
Leu His Lys Thr Leu Val Pro Ala Gly Thr Gly His Ala Thr Val Ser
      275      280      285
Trp Ile Val Pro Glu
      290

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<210> 8012

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 8012

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Gln Pro Tyr Asn His Leu Gln Cys Leu Arg Arg Ile Val Met Pro Ala
  1      5      10      15
Leu Thr Thr Ala Arg Leu Thr Cys Ser Pro Leu Gln Glu Gln Asp Trp
      20      25      30
Pro Phe Phe Leu Ser Leu Gln Gln Asn Pro Glu Val Met Arg Phe Val
      35      40      45
Ala Pro Ala Arg Ser Glu Ala Asp Ile Arg Glu Ala Phe Glu Ser Arg
      50      55      60
Leu Leu Pro Trp Thr Pro Gly Ser Ser His Trp Leu Cys Leu Met Val
  65      70      75      80
Arg Glu Thr Ala Ser Gln Thr Pro Leu Gly Val Thr Gly Tyr Val His
      85      90      95
Arg Glu Ala Asp Cys Ala Glu Val Gly Phe Leu Phe Ala Pro Ser Ala
      100      105      110
Gln Gly Lys Gly Tyr Gly Phe Glu Ser Leu Arg Ala Val Cys Asp Phe
      115      120      125
Ala Leu Thr Gln Gly Asn Ile Arg Arg Leu Thr Ala Thr Val Thr Ala
      130      135      140
Gly Asn Ile Ala Ser Arg Arg Leu Leu Glu Lys Thr Gly Phe Gln Leu
  145      150      155      160
Glu Gly Glu Leu Arg Glu Ser Tyr Phe Leu Ser Gly Gln Trp His Asn
      165      170      175
Asp Trp Leu Phe Gly Leu Leu Lys Lys Glu Phe Pro Phe Ser
      180      185      190

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<210> 8013

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8013

Pro	Thr	Ser	Met	Asp	Lys	Ile	His	Ala	Met	Gln	Leu	Phe	Leu	Arg	Val
1				5					10					15	
Ala	Glu	Leu	Glu	Ser	Phe	Ser	Arg	Ala	Ala	Glu	Thr	Leu	Ser	Leu	Pro
			20					25					30		
Lys	Gly	Ser	Val	Ser	Arg	Gln	Ile	Gln	Ala	Leu	Glu	Asn	Ala	Leu	Gly
		35				40						45			
Thr	Gln	Leu	Leu	His	Arg	Thr	Thr	Arg	Arg	Val	Ser	Leu	Thr	Gln	Asp
	50					55					60				
Gly	Met	Val	Tyr	Tyr	Glu	Arg	Ala	Lys	Asp	Leu	Leu	Met	Asn	Leu	Asp
65					70				75					80	
Glu	Leu	Asp	Gly	Met	Phe	Leu	His	Asp	Pro	Ser	Thr	Ile	Ser	Gly	Arg
				85					90					95	
Leu	Arg	Val	Asp	Met	Pro	Val	Ala	Ile	Ala	Arg	Asn	Val	Val	Ile	Pro
			100					105					110		
Lys	Leu	Pro	Ala	Phe	Leu	Gln	Gln	Phe	Pro	Gly	Ile	Glu	Leu	Glu	Leu
		115					120					125			
Ser	Ser	Ser	Asp	Arg	Leu	Val	Asp	Val	Ile	Arg	Glu	Gly	Phe	Asp	Cys
	130					135					140				
Val	Val	Arg	Val	Gly	Asn	Leu	Lys	Asp	Ser	Gly	Leu	Ile	Ala	Arg	Pro
145					150					155					160
Leu	Gly	Lys	Leu	Ser	Val	Ile	Asn	Cys	Ala	Ser	Pro	Asp	Tyr	Leu	Thr
				165					170					175	
Arg	Phe	Gly	Tyr	Pro	Glu	Thr	Leu	Asp	Asp	Leu	Ala	Ser	His	Ala	Leu
			180					185					190		
Ile	His	Tyr	Ser	Ala	Thr	Leu	Gly	Thr	Arg	Pro	Gln	Gly	Phe	Glu	Tyr
	195						200					205			
Tyr	Asn	Gly	Ser	Ala	Thr	Arg	Trp	Val	Lys	Thr	Gly	Gly	Val	Leu	Ser
	210					215					220				
Val	Asn	Ser	Thr	Glu	Thr	Tyr	Gln	Ala	Ala	Cys	Ile	Ala	Gly	Leu	Gly
225					230					235					240
Ile	Ile	Gln	Val	Pro	Arg	Val	Gly	Val	Arg	Asp	Ala	Leu	Arg	Thr	Lys
				245					250					255	
Lys	Leu	Val	Glu	Ile	Leu	Pro	Gln	Tyr	Arg	Ala	Glu	Pro	Met	Pro	Val
			260					265					270		
Ser	Leu	Ile	Tyr	Pro	His	Arg	Arg	Asn	Leu	Ser	Arg	Arg	Val	His	Val
		275					280					285			
Phe	Met	Glu	Trp	Leu	Thr	Glu	Leu	Thr	Lys	Gly	Tyr	Val	Asp		
	290					295					300				

<210> 8014

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 8014

Leu	Thr	Ile	Lys	Asn	Thr	Gln	Arg	Thr	Leu	Pro	Leu	Ile	Thr	Leu	Phe
1				5					10					15	
Arg	Phe	Thr	Thr	Met	Ser	Lys	Lys	Ile	Ala	Val	Ile	Gly	Glu	Cys	Met
			20					25					30		
Ile	Glu	Leu	Ser	Gln	Lys	Gly	Ala	Glu	Val	Ser	Arg	Gly	Phe	Gly	Gly
		35				40						45			
Asp	Thr	Leu	Asn	Thr	Ser	Val	Tyr	Ile	Ala	Arg	Gln	Val	Ser	Pro	Asp
	50					55					60				
Ala	Leu	Ser	Val	Ser	Tyr	Val	Thr	Ala	Leu	Gly	Thr	Asp	Ser	Phe	Ser
65					70					75				80	
Gln	Gln	Met	Leu	Glu	Ala	Trp	Gln	Gly	Glu	Asn	Val	Gly	Thr	Ser	Leu
				85					90					95	
Ile	Gln	Arg	Met	Glu	Asn	Arg	Leu	Pro	Gly	Leu	Tyr	Tyr	Ile	Glu	Thr
			100					105					110		
Asp	Ser	Thr	Gly	Glu	Arg	Thr	Phe	Tyr	Tyr	Trp	Arg	Asn	Glu	Ala	Ala
			115				120					125			

Ala Lys Phe Trp Leu Glu Ser Glu Ala Ala Ala Ala Ile Cys Glu Glu
 130 135 140
 Leu Ala Thr Phe Asp Tyr Leu Tyr Leu Ser Gly Ile Ser Leu Ala Ile
 145 150 155 160
 Leu Ser Gln Glu Ser Arg Glu Lys Leu Leu Ser Leu Leu Arg Glu Cys
 165 170 175
 Arg Ala Asn Gly Gly Lys Val Ile Phe Asp Asn Asn Tyr Arg Pro Arg
 180 185 190
 Leu Trp Ala Ser Arg Glu Glu Thr Gln Gln Val Tyr Gln Gln Met Leu
 195 200 205
 Glu Cys Thr Asp Ile Ala Phe Leu Thr Leu Asp Asp Glu Asp Ala Leu
 210 215 220
 Trp Gly Glu Lys Pro Val Asp Glu Val Ile Ala Arg Thr Gln Ala Ala
 225 230 235 240
 Gly Val Ser Glu Val Val Ile Lys Arg Gly Ala Glu Ser Cys Leu Val
 245 250 255
 Ala Val Ala Gly Glu Ala Val Thr Glu Val Pro Ala Val Lys Leu Ala
 260 265 270
 Lys Glu Lys Val Ile Asp Thr Thr Ala Ala Gly Asp Ser Phe Ser Ala
 275 280 285
 Gly Tyr Leu Ala Val Arg Leu Thr Gly Gly Thr Pro Glu Ala Ala Ala
 290 295 300
 Gln Arg Gly His Leu Thr Ala Ser Thr Val Ile Gln Tyr Arg Gly Ala
 305 310 315 320
 Ile Ile Pro Arg Glu Ala Met Pro Ala
 325 330

<210> 8015

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8015

Lys Leu Leu Gln Pro Gln Gln Gly Arg Gln Val Glu Val Val Ala Arg
 1 5 10 15
 Phe Val Gln Lys Gln Gln Ile Arg Ile Ala Tyr Gln Arg Pro Arg Gln
 20 25 30
 Gln Gln Pro Arg Met Leu Thr Ala Ala Gln Arg Gly Gly Leu Gln Arg
 35 40 45
 Arg Phe Leu Arg Arg Lys Ala His Ser Gly Gln Gln Arg Leu Gly Leu
 50 55 60
 Pro Ala Lys Thr Val Ala Leu Thr Gly Arg Gln Leu Arg Gln His Arg
 65 70 75 80
 Ile Gln His Gly Gln Gly Ile Lys Gly Leu Arg Gln Met Leu Phe His
 85 90 95
 Ala Arg Gln Gln Ala Met Ser Ser Gln
 100 105

<210> 8016

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 8016

His Cys Ser Ser Ile Glu Val Phe Asp Ala Leu Val Ile Leu Ser Val
 1 5 10 15
 Leu Leu Trp Val Pro Asp Ile His Asp Thr Thr Thr Thr Arg Leu Thr
 20 25 30
 Glu Gln Phe His Phe Leu Lys Lys Pro Glu Pro Trp Leu Ile Phe Ala
 35 40 45
 Ala Thr Met Phe Gly Asn Ala Gly Val Phe Ala Trp Phe Ser Phe Val

50	55	60
Lys Pro Phe Met Val Asn Val Ser Gly Phe Ser Glu Gly Val Met Thr		
65	70	75
Ala Ile Met Met Leu Met Gly Leu Gly Met Val Leu Gly Asn Val Phe		
	85	90
Ser Gly Lys Leu Ser Ser Arg Phe Ser Pro Leu Arg Ile Ala Ala Thr		
	100	105
Thr Asp Leu Val Ile Val Ala Ser Leu Leu Ala Leu Phe Ala Phe Gly		
	115	120
Glu Leu Lys Thr Ala Ser Leu Val Met Gly Phe Val Cys Cys Ala Gly		
	130	135
Leu Phe Ala Leu Ser Ala Pro Leu Gln Ile Leu Leu Gln Asn Ala		
145	150	155
Lys Gly Gly Glu Met Leu Gly Ala Ala Gly Gly Gln Met Ala Phe Asn		
	165	170
Leu Gly Ser Ala Ile Gly Ala Tyr Phe Gly Gly Met Met Ile Thr Leu		
	180	185
Gly Phe Ser Trp Ser Tyr Val Thr Leu Pro Ala Ala Ile Leu Ser Phe		
	195	200
Ser Ala Met Thr Ser Leu Leu Met Tyr Gly Tyr Leu Cys Ala Lys Lys		
210	215	220
Arg Gln Ala Asn Ala Gly Ala Leu Ala		
225	230	

<210> 8017

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8017

Ile Glu Gln Met Glu Val Lys Met Asp Arg Val Ile Ala Ala Gln Val		
1	5	10
Tyr Asn Arg Ile Cys Glu Leu Gly Ser Leu Ser Ala Ala Ala Arg Ala		
	20	25
Leu Gly Ile Ser Arg Pro Met Val Ser Arg Tyr Leu Glu Gln Met Glu		
	35	40
Lys Trp Ala Gly Ala Arg Leu Val Asn Arg Ser Thr Arg Lys Leu Thr		
	50	55
Leu Thr Ala Ala Gly Glu Lys Val Leu Gln Lys Thr Arg Thr Leu Ser		
65	70	75
Gln Ile Ser Gln Glu Ile Glu Asp Gln Ser Val Lys Asp Leu Pro Ser		
	85	90
Gly Thr Leu Arg Val Ala Cys Ala His Phe Thr Ala Met His Ile Ile		
	100	105
Val Pro Val Leu Pro Asp Leu Leu Gln Arg Tyr Pro Gln Leu Arg Ile		
	115	120
Glu Leu Asp Val Asn Asn His Pro Val Ser Leu Val Gly Glu Arg Ile		
	130	135
Asp Val Ala Ile Arg Ile Thr Asp Asn Pro Glu Pro Gly Met Ile Ala		
145	150	155
Arg Arg Leu Gly Glu Cys Arg Ser Val Leu Cys Ala Ser Pro His Tyr		
	165	170
Leu Ala Ser Arg Gly Val Pro Val Gln Leu Glu Asp Leu Ser Arg His		
	180	185
Asn Cys Leu His Tyr Ser Phe Phe Ala Gly Gln Ser Trp Arg Phe Leu		
	195	200
Thr Pro Glu Gly Glu Ser Val Thr Thr Ala Val Ser Gly Asn Leu Ser		
	210	215
Ala Ser Ile Ser Ser Leu Leu Met Glu Ala Ala Ile Asn His Cys Gly		
225	230	235
Ile Ala Met Leu Pro Glu Arg Glu Ala Asp Ala Ala Leu Arg Gln Gly		

				245					250					255			
Ser	Leu	Val	Pro	Val	Leu	Gly	Ala	Phe	Thr	Pro	Lys	Pro	Ile	Gly	Ile		
			260					265					270				
Phe	Gly	Ile	Tyr	Gln	Ser	Arg	Asp	Tyr	Gln	Pro	Ala	Ala	Gln	Arg	Val		
		275					280					285					
Phe	Leu	Asp	Ala	Leu	Ala	Asn	His	Leu	Ala	Thr	Arg	Ser	Asp				
	290					295					300						

<210> 8018

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 8018

Ala	Lys	Arg	Arg	Ala	Arg	Met	Thr	Ile	His	Lys	His	Gly	Ser	Ala	His		
1				5				10					15				
Trp	Ser	Gly	Asp	Ile	Lys	Arg	Gly	Lys	Gly	Thr	Val	Ser	Thr	Glu	Ser		
		20					25					30					
Gly	Val	Leu	Asn	Gln	Gln	Pro	Tyr	Gly	Phe	Asn	Thr	Arg	Phe	Glu	Gly		
	35						40				45						
Glu	Lys	Gly	Thr	Asn	Pro	Glu	Glu	Leu	Ile	Gly	Ala	Ala	His	Ala	Ala		
	50				55					60							
Cys	Phe	Ser	Met	Ala	Leu	Ser	Leu	Met	Leu	Gly	Glu	Ala	Gly	Tyr	Thr		
65				70				75						80			
Ala	Asp	Ser	Ile	Asp	Thr	Thr	Ala	Asp	Val	Ser	Leu	Asp	Lys	Thr	Asp		
			85				90					95					
Ser	Gly	Phe	Ala	Ile	Ser	Lys	Val	Ala	Leu	Gln	Ser	Lys	Val	Thr	Val		
	100						105					110					
Pro	Gly	Ile	Asp	Pro	Gln	Gln	Phe	Asp	Gly	Ile	Ile	Gln	Lys	Ala	Lys		
	115						120					125					
Ala	Gly	Cys	Pro	Val	Ser	Gln	Leu	Leu	Lys	Ala	Glu	Ile	Thr	Leu	Asp		
	130					135					140						
Tyr	Lys	Leu	Asn														
145																	

<210> 8019

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 8019

Arg	Gly	Gln	Thr	Leu	Leu	Phe	Tyr	Ile	Thr	Thr	Lys	Val	Met	Ser	Met		
1				5				10					15				
Asn	Thr	Thr	Leu	Ala	Gly	Lys	Ile	Ala	Leu	Val	Thr	Gly	Gly	Ser	Thr		
		20					25					30					
Gly	Ile	Gly	Leu	Ala	Thr	Ala	Gln	Glu	Leu	Ala	Ala	Gln	Gly	Ala	Lys		
	35						40				45						
Val	Tyr	Ile	Thr	Gly	Arg	Arg	Gln	Ala	Glu	Leu	Asp	Ala	Ala	Arg	Ala		
	50				55					60							
Asp	Ile	Gly	Ala	Ala	Ala	Val	Ala	Ile	Arg	Ala	Asp	Val	Ser	Arg	Met		
65			70				75							80			
Ala	Asp	Leu	Asp	Ala	Val	Tyr	Ala	Gln	Ile	Ala	Lys	Glu	Glu	Gly	Arg		
			85				90					95					
Leu	Asp	Ile	Leu	Phe	Ala	Asn	Ala	Gly	Gly	Gly	Asp	Met	Leu	Pro	Leu		
	100						105					110					
Gly	Ala	Ile	Thr	Glu	Glu	Gln	Phe	Asp	Arg	Ile	Phe	Ala	Thr	Asn	Val		
	115						120					125					
Arg	Gly	Val	Leu	Phe	Thr	Val	Gln	Lys	Ala	Leu	Pro	Leu	Leu	Ser	Ser		
	130					135					140						
Gly	Ser	Ser	Ile	Ile	Leu	Thr	Gly	Ser	Thr	Val	Ser	Ile	Lys	Gly	Thr		
145					150					155					160		

Ala Asn Phe Ser Val Tyr Ser Ala Ser Lys Ala Ala Val Arg Asn Phe
 165 170 175
 Ala Arg Ser Trp Ala Leu Asp Leu Gln Gly Arg Gly Ile Arg Val Asn
 180 185 190
 Val Val Ser Pro Gly Pro Val Lys Thr Pro Gly Leu Gly Asp Leu Val
 195 200 205
 Pro Glu Glu Gln Arg Gln Gly Leu Tyr Asp Ala Leu Ala Ala Gln Val
 210 215 220
 Pro Leu Gly Arg Leu Gly Ala Pro Gly Glu Val Gly Lys Ala Val Ala
 225 230 235 240
 Phe Leu Ala Ser Asp Ala Ala Ser Phe Ile Asn Ala Thr Glu Leu Phe
 245 250 255
 Val Asp Gly Gly Met Ala Gln Ile
 260 265

<210> 8020

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 8020

His Pro Val Pro Ala Arg Arg Gln Ala Ser Arg Cys Pro Ser Ser Pro
 1 5 10 15
 Ser Val Ala Pro Gly Asp Pro Ala Ser Gly Tyr Gly Thr Pro Pro Ile
 20 25 30
 Lys Cys Pro Ala Ala Arg Gln Ser Pro Gly Pro Ala Ala Lys Ser Arg
 35 40 45
 Arg Pro Val Pro Ala Trp Arg Gly Lys Arg Leu Ser Asn Leu Pro Gln
 50 55 60
 Arg Gly Asp Arg Cys Glu Trp Met Cys Pro Asp Arg His Ala Pro Ala
 65 70 75 80
 Pro Leu His Ser Gly Gln Thr Glu Tyr Arg Ala Val Asp Pro Ala Pro
 85 90 95
 Ala Ala Gly Gly Cys Pro Ala Arg Phe His Arg Trp Arg Gly His Arg
 100 105 110
 Pro Ala Gly Gly Pro Asp Arg Arg Gly Ser Gly Val Lys
 115 120 125

<210> 8021

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 8021

Lys Leu Trp Gly Lys Lys Arg Glu Pro Tyr Met Ala Asn Leu Pro Trp
 1 5 10 15
 Arg Val Ser Val Arg Leu Met Ala Leu Ala Lys Lys Ile Ala Met Val
 20 25 30
 Ile Gly Ile Ile Val Leu Val Leu Leu Ser Val Arg Val Tyr Leu Ser
 35 40 45
 Gln Gln Gly Pro Ala Leu His His Trp His Thr Trp Arg Ala Asp Glu
 50 55 60
 Met Ser Val Gln Glu Met Asp Asn Ala Thr Phe Ala Ala Tyr Val Ala
 65 70 75 80
 Arg Glu Asn Ala Ile Phe Thr Ala Leu Asp Ala Glu Val Thr Ala Lys
 85 90 95
 Val Pro Pro Ala Glu Arg Thr Pro Leu Asn Arg Tyr Tyr Arg Gln Ser
 100 105 110
 Leu Val Trp Pro Gly His Phe Ser Pro Asp Ala Asn Arg Ser Phe Val
 115 120 125
 Leu Met Pro Ala Gly Lys Pro Arg Gly Gly Val Val Leu Leu His Gly

130	135	140
Leu Thr Asp Ser Pro Tyr	Ser Val Arg His Leu	Ala Glu Asn Tyr Gln
145	150	155
Gln His Gly Phe Val	Ala Val Val Pro Arg	Leu Pro Gly His Gly Thr
165	170	175
Ala Pro Gly Ala Leu Thr	Asp Val Asp Trp Glu Ala	Trp Leu Ala Ala
180	185	190
Thr Arg Leu Ala Val Arg	Glu Ala Thr Arg Leu Thr	Gly Asn Asp Leu
195	200	205
Pro Leu His Leu Val Gly	Tyr Ser Asn Gly Gly Ala	Leu Ala Met Lys
210	215	220
Tyr Ala Leu Asp Ala Leu	Asp Ala Pro Ala Leu Arg	Gln Pro Glu Gln
225	230	235
Ile Val Leu Leu Ser Pro	Met Ile Gly Val Thr Ala	Phe Ala Arg Phe
245	250	255
Ala Gly Phe Ala Gly Leu	Pro Ala Met Leu Pro Ala	Phe Ala Lys Ala
260	265	270
Ala Trp Leu Asn Ile Ser	Pro Glu Tyr Asn Pro Tyr	Lys Tyr Asn Ser
275	280	285
Phe Pro Val Asn Ala Ala	Arg Gln Ser Trp Leu Leu	Thr Gln Ala Leu
290	295	300
His Glu Gln Ile Asn Arg	Gly Val His Asp His Lys	Leu Ala Gln Leu
305	310	315
Pro Pro Ile Leu Ala Phe	Gln Ser Val Met Asp Ser	Thr Val Ser Thr
325	330	335
Arg Ala Val Val Ser Gly	Leu Phe Asp Gln Leu Pro	Ala Asn Gly Ser
340	345	350
Glu Leu Val Val Phe Asp	Ile Asn Gln Ala Gly Ser	Phe Arg Pro Leu
355	360	365
Phe Arg Pro Ser Ser Trp	Thr Ala Val Ala Asp Leu	Leu Pro Glu Ala
370	375	380
Lys Arg Arg Tyr Ser Val	Thr Ile Val Thr Asn Ala	Ser Pro Asp Arg
385	390	395
Phe Asp Met Val Ala Lys	Lys Thr Pro Ala Gly Ser	Thr Arg Glu Thr
405	410	415
Val Met Pro Leu Ser Val	Ala Tyr Pro Gln Glu Val	Tyr Ser Leu Ser
420	425	430
His Val Ala Ile Pro Phe	Pro Gln Asp Asp Asp Leu	Tyr Gly Arg His
435	440	445
Pro Ala Val Lys Asn Arg	Tyr Gly Ile Ser Leu Gly	Thr Ile Ala Leu
450	455	460
Trp Gly Glu Thr Ser Val	Leu Ser Val Gly Lys Asp	Ala Leu Met Arg
465	470	475
Val Thr Ser Asn Pro Phe	Tyr Asp Tyr Met Gln Thr	Arg Ile Asp Ser
485	490	495
Arg Ile Gly Asp Asn		
500		

<210> 8022

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 8022

Val Thr Pro Gly Asn Cys	Val Lys Gln Tyr Arg	Ser Gly Val Tyr Pro
1	5	10
Ile Pro Asp Pro Val Ser	Val Leu Thr Thr Leu	Ile Tyr Arg Ser Gln
20	25	30
Leu Ser Leu Thr Cys Thr	Ser Ala Ala Leu Ser	Ala Leu Val Glu Gln
35	40	45
Ala Arg Ile Arg Asn Thr	Glu Gln Gly Ile Ser	Gly Ile Leu Leu Ser

50	55	60
Arg Gly Arg Asp Val Leu Gln Ile Leu Glu Gly Thr Glu Gln Arg Val		
65	70	75
Val Ala Leu Phe Asn Ser Ile Arg Ala Asp Asp Arg His Thr Gly Val		80
	85	90
Val Glu Leu Met Arg Asp Tyr Gly Pro Arg Arg Arg Phe Glu Asp Val		95
	100	105
Gly Met Leu Leu Phe Asp Leu Asp Val Gln Thr Pro Lys Ala Val Leu		110
	115	120
Ala Ser Val Leu His Tyr Ser Lys Leu Glu Ser Tyr Leu Thr Ser Glu		125
	130	135
Glu Arg Val Phe Lys Phe Ile Gln Thr Phe Ile Thr Gly Lys Thr Ala		140
145	150	155
Ile Pro Pro Ala Ser Asp Tyr Glu Pro Asp Lys Trp Thr Leu Ser Arg		160
	165	170
Glu Arg Ala Pro Phe Gly Lys Gly Leu Gly Leu Leu Ala Gly Gln Pro		175
	180	185
Cys Gln Phe Ala Leu Gln Pro Ile Val Glu Pro Ser Glu Gly Lys Ile		190
	195	200
Ser Ser Leu Glu Ala Leu Ile Arg Gly Asn Asp Gly Gly Ser Pro Glu		205
	210	215
His Phe Phe Arg Ser Leu Asp Arg Glu Leu Ile Tyr Glu Val Asp Leu		220
225	230	235
Gln Thr Lys Ala Trp Thr Phe Ala Leu Ala Gln Lys Leu Gly Ile Gly		240
	245	250
Ser His Lys Leu Ala Val Asn Leu Leu Pro Met Ser Leu Val Asn Val		255
	260	265
Pro Gly Ala Val Glu Phe Leu Val Thr Gln Ile Lys Lys His Asn Leu		270
	275	280
Gln Pro Glu Gln Val Ile Ile Glu Val Thr Glu Asn Glu Met Ile Ser		285
	290	295
Gly Phe Asn Gln Phe Asn Ser Ala Ile Lys Gln Leu Arg Ala Glu Gly		300
305	310	315
Val Gly Leu Ala Ile Asp Asp Phe Gly Ser Gly Tyr Ala Gly Leu Ser		320
	325	330
Leu Leu Thr Arg Phe Gln Pro Asp Lys Leu Lys Ile Asp Arg Glu Ile		335
	340	345
Val Ser Asp Ile His Leu Ser Gly Pro Lys Gln Ala Ile Val Lys Ser		350
	355	360
Ile Ile Ser Cys Cys Thr Asp Leu Glu Ile Thr Leu Val Ala Glu Gly		365
	370	375
Ile Glu Gln Ile Gly Ala Trp Cys Cys Ile Arg Pro Arg Gly Asp Gln		380
385	390	395
Asn Arg Val Arg Arg		400
	405	

<210> 8023

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 8023

Ala Met Ala Phe Tyr Ser Ser Gly Val Glu Tyr Gly Ile His Ser Leu	
1	5
Met Cys Met Val Asp Ala Lys Gly Asn Glu Arg Glu Met Ser Val Arg	10
	20
Glu Met Ala Ala Leu Gln Gly Val Pro Tyr Asp Tyr Leu Gly Lys Ile	25
	30
Phe Thr Arg Leu Ser Arg Ala Gly Leu Val Ile Ser Thr Glu Gly Lys	35
	40
Gly Gly Gly Phe Arg Leu Ala Arg Pro Ala Glu Leu Ile Ser Val Leu	45
	50
	55
	60

65					70					75					80
Asp	Val	Ala	His	Ala	Ile	Asp	Gly	Glu	Lys	Asn	Met	Phe	Glu	Cys	Arg
				85					90					95	
Glu	Val	Arg	Gln	Arg	Leu	Ala	Val	Phe	Asp	Glu	Thr	Pro	Pro	Ala	Trp
			100					105					110		
Val	Cys	Asp	Gly	Pro	Cys	Gly	Val	Arg	Ser	Val	Met	Asp	Ser	Ala	Gln
		115					120				125				
Gln	Arg	Met	Glu	Glu	Glu	Leu	Gly	Arg	His	Thr	Ile	Leu	Asp	Leu	Ala
		130				135					140				
Arg	Lys	Met	Tyr	Arg	Lys	Ala	Pro	Asp	Thr	Phe	Gln	Ile	Glu	Val	Gln
145					150					155					160
Glu	Trp	Ile	Ser	Asp	Arg	Arg	Ser	Ser	Thr						
				165					170						

<210> 8024

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 8024

Pro	Leu	Ala	Gly	Ser	Pro	Gly	Ala	Thr	Asp	Gly	Asp	Asp	Gly	His	Leu
1				5					10					15	
Asp	Ala	Cys	Leu	Leu	Ala	Gly	Thr	Gly	Cys	Tyr	Arg	Ser	Val	Leu	Arg
			20					25					30		
Ala	Thr	Ala	Asn	Ser	Ala	Arg	Arg	Arg	Gln	Ala	Gly	Arg	Leu	Ala	Arg
		35				40					45				
Ser	Ala	Arg	Pro	Arg	Tyr	Arg	Phe	Leu	Ser	Ala	Gly	Arg	Ser	Ala	Gly
	50				55					60					
Arg	Gln	Arg	Arg	Gly	Val	Phe	Gln	Arg	Pro	Thr	Ala	Pro	Asp	Ser	Thr
65				70					75					80	
Leu	Pro	Asp	Pro	Gly	Leu	Cys	Ala	Ser	Gly	Tyr	Cys	Gly	Ala	Ser	Gly
			85					90					95		
Thr	Phe	Arg	Asp	Ala	Gly	Ala	Thr	Glu	Arg	Gly	Leu	Tyr	Ser	Tyr	Arg
			100					105					110		
Pro	Arg	Glu	Arg	Val	Ala	Gly	Val	Val	His	Arg	Ala	Ala	Leu	Arg	Leu
		115				120					125				
Thr	Gln	Arg	His	Asp	Pro	Leu	His	Tyr	Arg	Ala	Arg	Ala	Gly	Ala	Gly
	130					135				140					
Arg	Ser	Ala	Val	Arg	Gly	Ser	Pro	Tyr	Arg	Asn	Arg	Val	Cys	Leu	Ala
145				150					155						160
Gly	Asn	Gly	Ser	Leu	Gly	Gly	Asp	Leu	His	Ser	Gly	Ala	Gly	Leu	Pro
			165					170						175	
Cys	Arg	His	Gly	Leu	Arg	Gly	Arg	Gly	Ile	Ala	Gly	Leu	Cys	Leu	Arg
		180					185					190			
Gln	Ser	Gly	Gly	Gly	Ser	Ala	Val	Ser	Val	Asp	Arg	Pro	Ala	Asn	Arg
	195					200					205				
Ala	Arg	Arg	Cys	Arg	Met	Met	Leu	Thr	Gln	Glu	Thr	Pro	Val	Pro	Val
	210				215					220					
Ser	Thr	Ala	Lys	Gln	Arg	Ile	Asn	Trp	Ala	Lys	Leu	Phe	Trp	Met	Leu
225				230					235					240	
Arg	Lys	Ser	Pro	Leu	Thr	Leu	Ile	Gly	Gly	Val	Ile	Met	Ile	Val	Met
			245					250						255	
Leu	Leu	Leu	Met	Val	Val	Ser	Pro	Trp	Ile	Val	Pro	His	Asp	Pro	Asn
		260					265					270			
Ala	Leu	Asp	Leu	Thr	Ala	Arg	Leu	Gln	Ala	Pro	Ser	Ala	Gln	His	Trp
	275					280					285				
Phe	Gly	Thr	Asp	Glu	Val	Gly	Arg	Asp	Leu	Phe	Ser	Arg	Val	Leu	Val
	290					295				300					
Gly	Ser	Gln	Gln	Ser	Ile	Thr	Ala	Gly	Leu	Ala	Val	Val	Val	Ile	Ala
305				310				315						320	
Gly	Gly	Ile	Gly	Ser	Leu	Leu	Gly	Cys	Leu	Ser	Gly	Val	Leu	Gly	Gly

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<210> 8025
<211> 329
<212> PRT
<213> Enterobacter cloacae
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<400> 8025															
Phe	Pro	Arg	Ala	Gln	Lys	Ala	Asn	Arg	Leu	Pro	Ala	Gly	Thr	His	Asn
1				5					10					15	
Arg	Arg	Asp	Ala	Met	Ser	Glu	Val	Leu	Leu	Glu	Leu	Asp	Ser	Val	His
			20					25					30		
Val	Asn	Phe	Pro	Ala	Arg	Lys	Asn	Trp	Leu	Gly	Arg	Val	Thr	Glu	Gln
		35					40					45			
Val	His	Ala	Leu	Asn	Gly	Met	Asp	Leu	Arg	Ile	His	Arg	Gly	Glu	Thr
	50					55					60				
Leu	Gly	Val	Val	Gly	Glu	Ser	Gly	Cys	Gly	Lys	Ser	Thr	Leu	Ala	Gln
65					70					75					80
Leu	Leu	Met	Gly	Met	Leu	Lys	Pro	Ser	Thr	Gly	Ala	Cys	Gln	Arg	Ala
				85					90					95	
Asn	Ala	Ala	Gly	Met	Gln	Met	Val	Phe	Gln	Asp	Pro	Leu	Ser	Ser	
			100					105					110		
Leu	Asp	Pro	Arg	Leu	Pro	Val	Trp	Arg	Ile	Ile	Thr	Glu	Pro	Val	Trp
		115					120					125			
Ile	Gln	Gln	Arg	Arg	Ser	Glu	Arg	Glu	Arg	Arg	Gln	Leu	Ala	Glu	Thr
	130					135					140				
Leu	Ala	Gln	Gln	Val	Gly	Ile	Arg	Ala	Glu	Tyr	Leu	Asp	Arg	Leu	Pro
145					150					155					160
His	Ala	Phe	Ser	Gly	Gln	Arg	Gln	Arg	Ile	Ala	Ile	Ala	Arg	Ala	
				165					170					175	
Leu	Ser	Ser	Asp	Pro	Asp	Ile	Ile	Val	Leu	Asp	Glu	Pro	Thr	Ser	Ala
			180					185					190		
Leu	Asp	Ile	Ser	Val	Gln	Ala	Gln	Ile	Leu	Asn	Leu	Leu	Val	Ala	Leu
		195					200					205			
Gln	Gln	Gln	Arg	Asn	Leu	Thr	Tyr	Val	Leu	Ile	Ser	His	Asn	Val	Ser
	210					215					220				
Val	Val	Arg	His	Met	Ser	Asp	Arg	Val	Ala	Val	Met	Tyr	Leu	Gly	Gln
225					230					235					240
Ile	Val	Glu	Leu	Gly	Pro	Ala	Asp	Gln	Val	Leu	Ser	Gln	Pro	Arg	His

				245					250				255				
Pro	Tyr	Thr	Gln	Leu	Leu	Leu	Asp	Ser	Val	Pro	Arg	Thr	Gly	Glu	Pro		
			260					265					270				
Leu	Asp	Glu	Asp	Leu	Ala	Leu	Arg	Lys	Thr	Asp	Leu	Pro	Gly	Asn	Arg		
		275					280					285					
His	Leu	Pro	Val	Gly	Cys	Tyr	Phe	Arg	Asp	Arg	Cys	Pro	Leu	Ala	Met		
	290					295					300						
Gln	Gly	Cys	Glu	Arg	Pro	Gln	Pro	Leu	Gln	Pro	Ala	Ala	Glu	Gly	Arg		
305					310					315					320		
Ser	Val	Arg	Cys	Trp	Arg	Asn	Arg										
				325													

<210> 8026

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8026

Ser	Glu	Glu	Ile	Tyr	Val	Asp	Gln	Leu	Met	Ala	Met	Arg	Ala	Phe	Thr		
1			5					10						15			
Arg	Val	Val	Glu	Ser	Gly	Ser	Phe	Thr	Arg	Ala	Ala	Asp	Ser	Leu	Asn		
		20					25						30				
Met	Pro	Ile	Ala	Thr	Leu	Ser	Lys	Leu	Val	Lys	Ser	Leu	Glu	Ala	His		
		35					40					45					
Leu	Glu	Thr	Arg	Leu	Leu	His	Arg	Thr	Thr	Arg	Arg	Val	Val	Thr	Thr		
	50					55					60						
Ala	Glu	Gly	Met	Glu	Tyr	Tyr	Glu	Lys	Ala	Leu	Arg	Val	Leu	Ile	Asp		
65				70					75						80		
Ile	Glu	Asp	Ile	Asp	Thr	Ala	Phe	Arg	Ala	Ser	Cys	Cys	Thr	Pro	Lys		
			85					90						95			
Gly	His	Leu	Arg	Ile	Asp	Val	Gly	Gly	Ser	Thr	Ala	Arg	Asp	Val	Leu		
		100					105						110				
Ile	Pro	Leu	Leu	Pro	Asp	Phe	Phe	Gln	Arg	Tyr	Pro	Asp	Leu	Arg	Ile		
	115					120						125					
Asn	Leu	Gly	Val	Ala	Asp	Arg	Pro	Val	Asp	Leu	Ile	Ser	Gly	Asn	Val		
	130				135					140							
Asp	Cys	Val	Ile	Arg	Gly	Gly	Pro	Leu	Asp	Asp	Ser	Ser	Leu	Ile	Ala		
145					150				155						160		
Arg	His	Ile	Gly	Asp	Ala	Gly	Met	Ile	Ala	Cys	Ala	Ala	Pro	Gly	Tyr		
			165					170						175			
Leu	Lys	Ala	His	Gly	Ile	Pro	Ala	Tyr	Pro	Gln	Glu	Leu	Arg	Asn	Gly		
	180					185						190					
His	Lys	Leu	Ile	Ser	Tyr	Leu	Ser	Pro	Val	Thr	Gly	Arg	Ala	Phe	Pro		
	195					200						205					
Phe	Arg	Phe	Leu	Asp	Arg	Gly	Glu	Pro	Leu	Glu	Ile	Ser	Val	Pro	His		
	210					215					220						
His	Leu	Gly	Val	Asn	Glu	Ser	Asn	Ala	His	Leu	Ala	Ala	Ala	Leu	Ala		
225					230					235					240		
Gly	Leu	Gly	Ile	Ile	Gln	Thr	Phe	Gly	Tyr	Ala	Ala	Arg	Ala	His	Leu		
			245					250						255			
Glu	Thr	Gly	Ala	Leu	Val	Glu	Ile	Leu	Ser	Asp	Trp	Arg	Pro	Lys	Ala		
	260						265						270				
Tyr	Pro	Phe	His	Val	Val	Tyr	Pro	Gln	Ser	Arg	His	Leu	Thr	His	Arg		
	275					280						285					
Leu	Arg	Val	Phe	Ile	Ala	Trp	Leu	Ala	Glu	Val	Phe	Pro	Ala	Ala	Val		
	290					295					300						
Lys	Gly																
305																	

<210> 8027

<211> 595

<212> PRT

<213> Enterobacter cloacae

<400> 8027

Tyr	Gln	Pro	Thr	Ala	Pro	Arg	Ser	Thr	Gly	Gln	Lys	Asp	Asp	Lys	Gln
1				5					10					15	
Gln	Cys	Gln	Gly	Arg	Ile	Phe	Leu	Lys	Arg	Val	Ser	Asp	Met	Asp	Asn
			20					25					30		
Lys	Leu	Lys	Lys	His	Arg	Ser	Leu	Tyr	Ile	Pro	Tyr	Ala	Gly	Pro	Val
		35					40					45			
Leu	Leu	Glu	Phe	Pro	Leu	Leu	Asn	Lys	Gly	Ser	Ala	Phe	Ser	Met	Glu
	50					55					60				
Glu	Arg	Ser	Ser	Phe	Asn	Leu	Leu	Gly	Leu	Leu	Pro	Glu	Val	Val	Glu
65					70					75					80
Thr	Ile	Glu	Glu	Gln	Ala	Glu	Arg	Ala	Trp	Ile	Gln	Tyr	Gln	Gly	Phe
				85					90					95	
Lys	Thr	Glu	Ile	Asp	Lys	His	Ile	Tyr	Leu	Arg	Asn	Ile	Gln	Asp	Thr
			100					105					110		
Asn	Glu	Thr	Leu	Phe	Tyr	Arg	Leu	Val	Gln	Asn	His	Leu	Glu	Glu	Met
	115						120					125			
Met	Pro	Val	Ile	Tyr	Thr	Pro	Thr	Val	Gly	Ala	Ala	Cys	Glu	Arg	Phe
	130					135					140				
Ser	Glu	Ile	Tyr	Arg	Arg	Ser	Arg	Gly	Val	Phe	Ile	Ser	Tyr	Gln	Asn
145					150					155					160
Arg	His	Asn	Met	Asp	Asp	Ile	Leu	Gln	Asn	Val	Pro	Asn	His	Asn	Ile
				165					170					175	
Lys	Val	Ile	Val	Val	Thr	Asp	Gly	Glu	Arg	Ile	Leu	Gly	Leu	Gly	Asp
			180					185					190		
Gln	Gly	Ile	Gly	Gly	Met	Gly	Ile	Pro	Ile	Gly	Lys	Leu	Ser	Leu	Tyr
	195						200					205			
Thr	Ala	Cys	Gly	Gly	Ile	Ser	Pro	Ala	Tyr	Thr	Leu	Pro	Val	Val	Leu
	210					215					220				
Asp	Val	Gly	Thr	Asn	Asn	Gln	Gln	Leu	Leu	Asn	Asp	Pro	Leu	Tyr	Met
225					230					235					240
Gly	Trp	Arg	His	Pro	Arg	Ile	Thr	Asp	Asp	Glu	Tyr	Tyr	Gln	Phe	Val
			245						250					255	
Asp	Asp	Phe	Ile	Gln	Ala	Val	Lys	His	Arg	Trp	Pro	Asp	Val	Leu	Leu
		260						265					270		
Gln	Phe	Glu	Asp	Phe	Ala	Gln	Lys	Asn	Ala	Met	Pro	Leu	Leu	Asn	Arg
		275					280					285			
Tyr	Arg	Asp	Glu	Ile	Cys	Ser	Phe	Asn	Asp	Asp	Ile	Gln	Gly	Thr	Ala
	290					295					300				
Ala	Val	Thr	Val	Gly	Thr	Leu	Ile	Ala	Ala	Ser	Arg	Ala	Ala	Gly	Ser
305					310					315					320
Gln	Leu	Ser	Tyr	Gln	Lys	Ile	Val	Phe	Leu	Gly	Ala	Gly	Ser	Ala	Gly
				325					330					335	
Cys	Gly	Ile	Ala	Glu	Gln	Ile	Ile	Ala	Gln	Thr	Gln	Arg	Glu	Gly	Leu
			340					345					350		
Ser	Glu	Glu	Leu	Ala	Arg	Ser	Arg	Val	Phe	Met	Val	Asp	Arg	Phe	Gly
		355					360					365			
Leu	Leu	Thr	Asp	Gly	Met	Pro	Asn	Leu	Leu	Pro	Phe	Gln	Thr	Lys	Leu
	370					375					380				
Val	Gln	Lys	Arg	Glu	Asn	Leu	Lys	Asn	Trp	Asp	Thr	Asp	Asn	Glu	Val
385					390					395					400
Leu	Ser	Leu	Leu	Asp	Val	Val	Arg	Asn	Val	Lys	Pro	Asp	Ile	Leu	Ile
				405					410					415	
Gly	Val	Ser	Gly	Gln	Thr	Gly	Leu	Phe	Thr	Glu	Glu	Ile	Ile	Arg	Glu
			420					425					430		
Met	His	Lys	His	Cys	Glu	Arg	Pro	Ile	Val	Met	Pro	Leu	Ser	Asn	Pro
		435					440					445			
Thr	Ser	Arg	Val	Glu	Ala	Thr	Pro	Gln	Asp	Ile	Ile	Ala	Trp	Thr	Glu

450 455 460
 Gly Asn Ala Leu Val Ala Thr Gly Ser Pro Phe Asp Pro Val Val Trp
 465 470 475 480
 Lys Asp Lys Leu Tyr Pro Ile Ala Gln Cys Asn Asn Ser Tyr Ile Phe
 485 490 495
 Pro Gly Ile Gly Leu Gly Val Ile Ala Ser Gly Ala Ser Arg Ile Thr
 500 505 510
 Asp Glu Met Leu Met Ser Ala Ser Glu Thr Leu Ala Gly His Ser Pro
 515 520 525
 Leu Val Asn Asn Gly Glu Gly Leu Val Leu Pro Glu Leu Lys Asp Ile
 530 535 540
 His Lys Val Ser Arg Ala Ile Ala Phe Ala Val Gly Lys Met Ala Gln
 545 550 555 560
 Gln Gln Gly Val Ala Val Lys Thr Ser Ala Asp Ala Leu Gln Gln Ala
 565 570 575
 Ile Asp Asp Asn Phe Trp Met Pro Glu Tyr Arg Ser Tyr Arg Arg Thr
 580 585 590
 Ser Ile
 595

<210> 8028

<211> 572

<212> PRT

<213> Enterobacter cloacae

<400> 8028

Ala Thr Met Ser Thr Leu Leu Thr Ala His Ser Leu Arg Val Asp Thr
 1 5 10 15
 Ala Phe Gly Thr Leu Phe Asp Ser Leu Ser Phe Thr Leu Lys Gly
 20 25 30
 Asp Arg Ile Gly Leu Leu Gly Asp Asn Gly Cys Gly Lys Ser Thr Leu
 35 40 45
 Leu Lys Ile Leu Asp Gly Thr Gln Ser Pro Ala Ala Gly Thr Val Ser
 50 55 60
 Leu Ala Gly His Cys Leu Leu Ala Arg Val Glu Gln His Leu Pro Glu
 65 70 75 80
 Thr Leu Tyr Pro Leu Thr Met Leu Asp Ala Val Leu Ala Gln Leu Pro
 85 90 95
 Thr Gly Glu Arg Asp Ser Leu Arg Trp Lys Ala Glu Thr Leu Leu Ala
 100 105 110
 Gly Met Gly Phe Thr Thr Gln Glu Thr Ala Leu Gln Ser Ala Thr Leu
 115 120 125
 Ser Gly Gly Gln His Thr Arg Leu Leu Leu Ala Arg Ala Leu Ile Ser
 130 135 140
 Asp Pro Asp Leu Leu Leu Leu Asp Glu Pro Ser Asn His Leu Asp Leu
 145 150 155 160
 Pro Thr Leu Leu Trp Leu Glu Gln Phe Leu Gln Ser Trp Ser Gly Ser
 165 170 175
 Phe Val Leu Val Ser His Asp Arg Gln Leu Leu Asp Ala Ile Thr Asn
 180 185 190
 Gly Ser Trp Ile Leu Arg Asp Lys Thr Leu His Tyr Phe Ala Leu Pro
 195 200 205
 Cys Thr Ala Ala Arg Gln Ala Leu Glu Ala Lys Asp Glu Ser Asp Ala
 210 215 220
 Leu Arg His Lys Ala Glu Gln Lys Glu Ile Asp Arg Val Thr Ala Ser
 225 230 235 240
 Ala Lys Arg Leu Ala Thr Trp Gly Lys Val Tyr Asp Asn Glu Asp Leu
 245 250 255
 Ser Arg Lys Ala Lys Gln Met Glu Lys Gln Val Glu Arg Leu Lys Glu
 260 265 270
 Asn Gln Thr Glu Leu Thr Ala Gly Ser Pro Trp Thr Leu Thr Leu Arg

```
<210> 8029
<211> 350
<212> PRT
<213> Enterobacter cloacae
```

Val	Thr	Ala	His	Ala	Gly	Gly	Lys	Cys	Met	Thr	Phe	Trp	Ser	Ile	Val
1				5					10					15	
Arg	Gln	Arg	Cys	Trp	Gly	Leu	Ile	Leu	Val	Val	Ala	Gly	Val	Cys	Ile
			20					25					30		
Ile	Thr	Phe	Ile	Ile	Ser	His	Leu	Ile	Pro	Gly	Asp	Pro	Ala	Arg	Leu
		35					40					45			
Leu	Ala	Gly	Asp	Arg	Ala	Ser	Asp	Glu	Ile	Val	Gln	Gly	Ile	Arg	Gln
	50					55					60				
Gln	Leu	Gly	Leu	Asp	Gln	Pro	Leu	Tyr	Ile	Gln	Phe	Gly	Arg	Tyr	Val
65					70					75				80	
Glu	Ala	Leu	Ala	His	Gly	Asp	Leu	Gly	Thr	Ser	Ile	Arg	Thr	Gly	Arg
				85					90					95	
Pro	Val	Ala	Glu	Asp	Leu	Lys	Ala	Phe	Phe	Pro	Ala	Thr	Leu	Glu	Leu
			100					105					110		
Ala	Phe	Cys	Ser	Leu	Leu	Leu	Ala	Leu	Val	Ile	Gly	Val	Pro	Leu	Gly
		115					120					125			
Ile	Leu	Ser	Ala	Val	Tyr	Arg	Asn	Arg	Trp	Leu	Asp	His	Leu	Val	Arg

130	135	140
Leu Met Ala Met Thr Gly	Ile Ser Thr Pro Ala Phe Trp Leu Gly Leu	
145	150	155
Gly Val Ile Val Leu Phe Tyr Gly Gln Leu Gln Ile Leu Pro Gly Gly		160
	165	170
Gly Arg Leu Asp Asp Trp Leu Asp Pro Pro Ala His Val Thr Gly Phe		175
	180	185
Tyr Leu Leu Asp Ala Leu Leu Glu Gly Asn Gly Glu Val Phe Phe Asn		190
	195	200
Ala Leu Gln His Leu Ile Leu Pro Ser Leu Thr Leu Ala Phe Val His		205
	210	215
Leu Gly Ile Val Ala Arg Gln Val Arg Ser Ala Met Leu Glu Gln Leu		220
225	230	235
Ser Glu Asp Tyr Ile Arg Thr Ala Arg Ala Ser Gly Leu Pro Gly Trp		240
	245	250
Tyr Ile Val Leu Arg Tyr Ala Leu Pro Asn Ala Met Ile Pro Ser Ile		255
	260	265
Thr Val Leu Gly Leu Ala Leu Gly Asp Leu Leu Tyr Gly Ala Val Leu		270
	275	280
Thr Glu Thr Val Phe Ala Trp Pro Gly Met Gly Ala Trp Val Val Thr		285
290	295	300
Ser Ile Gln Ala Leu Asp Phe Pro Ala Val Met Gly Phe Ala Val Val		305
	310	315
Val Ser Leu Ala Tyr Val Phe Val Asn Leu Val Val Asp Leu Leu Tyr		320
	325	330
Leu Trp Ile Asp Pro Arg Ile Gly Arg Gly Gly Ala Glu		335
	340	345
		350

<210> 8030

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 8030

Gln Arg Gly Gly Met Thr Thr Lys Pro Glu Val Leu Ser Arg Ile Glu	
1	5
Ala Thr Phe Ser Gln Leu Thr Pro Ser Glu Lys Arg Val Ala Ser Trp	10
	20
Met Leu Ala His Val Gly Gln Ile Pro Phe Glu Thr Ala Glu Ser Val	25
	30
Ala Leu Ala Thr Ala Thr Ser Gly Ile Thr Val Gly Arg Phe Leu Arg	35
	40
Lys Leu Gly Tyr Arg Asn Leu Asp Asp Ala Lys Lys Ser Leu Arg Asp	45
65	50
Pro His Gln Pro Trp Gly Ile Asn Glu Arg Leu Asp Ser Trp Lys Gln	55
	60
Gln Gln Pro Leu Ser Asp Arg Leu Gln Asn Ser Leu Ser Leu Glu Val	65
	70
Asp Ala Ile Ala His Val Tyr Gln Leu Ala Gln Ser Glu Thr Phe Arg	75
	80
Gln Val Val Gln Gln Leu Thr His Ala Asp Ala Val Phe Val Leu Gly	85
	90
Ile Gln Ser Thr Arg Gly Ile Ala Asn Ala Phe Phe Ser His Leu Glu	95
145	100
Tyr Leu Arg Pro Arg Val Ser Tyr Ser Glu Gly Leu Ser Gly Ser Trp	105
	110
Val Glu Ser Leu Asn Ser Gly Phe Ala Asn Pro Tyr Ile Val Leu Thr	115
	120
Asp Thr Arg Ala Tyr Ser Ala Ile Ala Arg Gln Tyr Cys Arg Val Ala	125
	130
Ser Glu Lys Gly Leu Ala Met Ala Leu Ile Thr Asp Ile Trp Cys Pro	135
	140
	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205

210	215	220
Trp Ala Arg Asp Tyr Pro	Ile Asp Leu Leu Gln	Val Lys Thr Asp Thr
225	230	235
Gly His Phe Trp Asp Ser	Leu Ala Pro Val Ser	Cys Leu Phe Asn Leu
245	250	255
Leu Leu Ser Gly Val Val	Glu Ala Leu Gly Asp	Ala Leu Pro Glu Arg
260	265	270
Leu Ala Ile Asn Arg Gln	Leu Gln Gln Glu Phe	Gly Gln Phe Glu Arg
275	280	285

<210> 8031
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 8031

Arg Ser Gly Ala Met Pro	Glu Glu Ser Gln Leu Ile	Asp Val Ala Lys
1	5	10
Thr Phe Pro Thr Leu His	Ile Asp Leu Lys Tyr	Ala Thr Ala Asp Asn
20	25	30
Ile Thr Gly Arg Pro Ile	Tyr Gln His Ala Ala	Cys Leu Leu His Thr
35	40	45
Asp Ala Ala Thr Ala Leu	Ala Lys Ala Ile Gly	Ile Ala Ala Leu Ala
50	55	60
Gly Leu Lys Leu Val Val	Tyr Asp Ala Tyr Arg	Pro Gln Gln Ala Gln
65	70	75
Ser Gln Leu Trp Asp Ala	Cys Pro Asn Pro Glu	Tyr Val Val Asp Val
85	90	95
Ala Ile Gly Ser Asn His	Ser Arg Gly Thr Ala	Ile Asp Val Thr Leu
100	105	110
Met Asp Glu His Asp Asn	Val Leu Asp Met Gly	Ala Gly Phe Asp Glu
115	120	125
Met His Asp Arg Ser His	Ala Trp His Pro Ser	Val Pro Pro Glu Ala
130	135	140
Gln Arg Asn Arg Leu Leu	Leu Asn Ala Val Met	Tyr Gly Gly Gly Phe
145	150	155
Val Gly Ile Ser Ser Glu	Trp Trp His Phe Glu	Leu Pro Asn Ala Ala
165	170	175
Ser Tyr Pro Leu Leu Asp	Asp Gln Phe Ala Cys	Tyr Pro Thr Thr His
180	185	190
Ser Leu		

195

<210> 8032
 <211> 516
 <212> PRT
 <213> Enterobacter cloacae

<400> 8032

Phe Trp Ser Pro Ala Met	Lys Thr Thr Leu Leu Thr	Thr Thr Leu Ile Ala
1	5	10
Ala Thr Leu Ala Leu Ser	Ala Pro Leu Ala Leu Ala	Ala Val Pro Lys
20	25	30
Asp Met Leu Val Ile Gly	Lys Ala Ala Asp Pro	Gln Thr Leu Asp Pro
35	40	45
Ala Val Thr Ile Asp Asn	Asn Asp Trp Thr Val	Thr Tyr Pro Ser Tyr
50	55	60
Gln Arg Leu Val Lys Tyr	Lys Pro Gly Thr Thr	Glu Val Glu Gly Asp
65	70	75
		80

Leu Ser Thr Gly Trp Lys Ala Ser Asp Asp Gln Lys Glu Trp Thr Phe
 85 90 95
 Thr Leu Ala Asp Asn Ala Lys Phe Ser Asp Gly Thr Pro Val Thr Ala
 100 105 110
 Glu Ala Val Lys Leu Ser Phe Glu Arg Leu Leu Lys Ile Asn Gln Gly
 115 120 125
 Pro Ser Glu Ala Phe Pro Lys Asp Leu Lys Val Asp Ala Val Asp Glu
 130 135 140
 His Thr Val Lys Phe Thr Leu Ser Gln Pro Phe Ala Pro Phe Leu Tyr
 145 150 155 160
 Thr Leu Ala Asn Asp Gly Ala Ser Ile Val Asn Pro Ala Val Leu Lys
 165 170 175
 Ala Asn Ala Ala Asp Asp Ala Arg Gly Phe Leu Ala Gln Asn Thr Ala
 180 185 190
 Gly Ser Gly Pro Phe Met Leu Lys Ser Trp Arg Lys Gly Gln Gln Leu
 195 200 205
 Val Met Val Pro Asn Pro His Trp Pro Gly Glu Lys Pro His Phe Lys
 210 215 220
 Arg Val Ser Val Lys Ile Ile Gly Glu Ser Ala Ser Arg Arg Leu Gln
 225 230 235 240
 Leu Ser Arg Gly Asp Leu Asp Ile Ala Asp Ala Leu Pro Val Asp Gln
 245 250 255
 Leu Ala Ala Leu Lys Gln Glu Gly Lys Val Ala Val Ala Glu Tyr Pro
 260 265 270
 Ser Leu Arg Val Thr Tyr Leu Tyr Leu Asn Asn Ser Lys Pro Pro Met
 275 280 285
 Asn Gln Val Asp Leu Arg Arg Ala Val Ser Trp Ala Thr Asp Tyr Gln
 290 295 300
 Gly Met Val Lys Gly Ile Leu Ser Gly Asn Gly Lys Gln Met Arg Gly
 305 310 315 320
 Pro Ile Pro Glu Gly Met Trp Gly Phe Asp Ala Asn Ala Met Gln Tyr
 325 330 335
 Ser Phe Asp Glu Ala Lys Ala Lys Ala Ala Leu Glu Lys Val Asn Asp
 340 345 350
 Lys Pro Ala Ser Leu Thr Phe Leu Tyr Ser Asp Asn Asp Pro Asn Trp
 355 360 365
 Glu Pro Ile Ala Leu Ser Thr Gln Ala Ser Leu Gly Lys Leu Gly Ile
 370 375 380
 Asn Val Lys Leu Glu Lys Leu Ala Asn Ala Thr Met Arg Asp Arg Val
 385 390 395 400
 Gly Lys Gly Asp Tyr Asp Ile Ala Ile Gly Asn Trp Ser Pro Asp Phe
 405 410 415
 Ala Asp Pro Tyr Met Phe Met Asn Tyr Trp Phe Glu Ser Asp Lys Lys
 420 425 430
 Gly Leu Pro Gly Asn Arg Ser Phe Tyr Glu Asn Lys Glu Val Asp Ala
 435 440 445
 Leu Leu Gln Ala Ala Leu Lys Thr Thr Asp Gln Ala Glu Arg Thr Lys
 450 455 460
 Asp Tyr Gln Gln Ala Gln Lys Val Val Ile Asp Glu Ala Ala Tyr Val
 465 470 475 480
 Tyr Leu Phe Gln Lys Asn Tyr Gln Leu Ala Met Asn Lys Glu Val Lys
 485 490 495
 Gly Phe Thr Phe Asn Pro Met Leu Glu Gln Val Phe Asn Ile Ala Thr
 500 505 510
 Met Ser Lys
 515

<210> 8033

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 8033

Ser Val Trp Arg Trp Ser Ser Arg Pro Ala Gly Ser Gln Ile Arg Arg
 1 5 10 15
 Glu Ala Val Met Ser Asp Ser Val Leu Ser Ile Glu Asp Leu His Leu
 20 25 30
 Ser Phe Pro Ile Phe Arg Gly Asp Val His Ala Leu Asn His Val Ser
 35 40 45
 Leu Glu Ile Gly Arg Gly Glu Ile Val Gly Val Val Gly Glu Ser Gly
 50 55 60
 Ser Gly Lys Ser Val Thr Ala Met Leu Ala Met Arg Leu Leu Pro Glu
 65 70 75 80
 Gly Ser Tyr His Val His His Gly Arg Val Thr Leu Leu Gly Glu Asp
 85 90 95
 Val Leu Asn Ala Ser Glu Lys Gln Leu Arg Gln Trp Arg Gly Ala Arg
 100 105 110
 Val Ala Met Ile Phe Gln Glu Pro Met Thr Ala Leu Asn Pro Thr Arg
 115 120 125
 Arg Ile Gly Arg Gln Met Val Glu Val Ile Arg Gln His Gln Ser Leu
 130 135 140
 Ser Arg Arg Asp Ala Gln Lys Ala Ile Ala Leu Leu Gly Glu Met
 145 150 155 160
 Gln Ile Pro Asp Ala Ala Gln Val Met Asp Arg Tyr Pro Phe Glu Leu
 165 170 175
 Ser Gly Gly Met Arg Gln Arg Val Met Ile Ala Leu Ala Phe Ser Cys
 180 185 190
 Glu Pro Glu Leu Ile Ile Ala Asp Glu Pro Thr Thr Ala Leu Asp Val
 195 200 205
 Thr Val Gln Arg Gln Val Leu Arg Leu Leu Lys His Lys Ala Arg Ala
 210 215 220
 Ser Gly Thr Ser Val Leu Phe Ile Ser His Asp Met Ala Val Val Ser
 225 230 235 240
 Gln Leu Cys Asp Arg Met Tyr Val Met Tyr Ala Gly Ser Val Ile Glu
 245 250 255
 Ser Gly Ser Thr Gln Thr Leu Ile His His Pro Val His Pro Tyr Ser
 260 265 270
 Ile Gly Leu Leu Arg Cys Ala Pro Glu Asn Gly Glu Pro Arg Glu Ile
 275 280 285
 Leu Pro Ala Ile Pro Gly Thr Val Pro Asn Leu Ser His Leu Pro Arg
 290 295 300
 Gly Cys Ala Phe Arg Glu Arg Cys Phe Ala Ala Gly Ala Lys Cys Ser
 305 310 315 320
 Glu Thr Pro Arg Leu Ile Ser Thr Gly Ala Glu Gly Gln Gln Ala Ala
 325 330 335
 Cys Trp Tyr Pro Gln Gln Glu Arg Arg His Val
 340 345

<210> 8034

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 8034

Ala Ser Pro Val Ser Gly Ile Leu Ala Asn Glu Glu Ile Arg Thr Ile
 1 5 10 15
 Glu Thr Phe Leu Lys Asn Arg Asp Met Thr Met Thr Ile Ala Arg Leu
 20 25 30
 Ala Leu Leu Thr Thr Leu Phe Thr Pro Ala Val Phe Ala Ala Pro Leu
 35 40 45
 Thr Val Asp Thr Tyr Asn Pro Gln Glu Lys Gly Ile Phe Ala Val Ser
 50 55 60

```

Ser Thr Leu Val Ser Gly Pro Lys Glu Ala Val Leu Phe Asp Ala Gln
65      70      75      80
Phe Ser Val Lys Asp Gly Glu Ala Leu Val Glu Lys Ile Arg His Ser
      85      90      95
Gly Lys Thr Leu Asn Lys Ile Val Ile Thr Ser Gly Asp Pro Asp Phe
      100      105      110
Tyr Phe Gly Leu Gln Pro Leu Val Lys Ala Phe Pro Asn Ala Lys Val
      115      120      125
Val Ala Thr Gln Gln Val Val Asp His Ile Arg Ala Thr Lys Asp Ala
      130      135      140
Lys Leu Ala Phe Trp Gly Pro Gln Met Lys Asp Gly Ala Pro Ser Gln
145      150      155      160
Leu Tyr Leu Pro Gln Val Leu Ala Ser Thr Thr Phe Met Ile Asp Gly
      165      170      175
Glu Arg Val Asn Ile Glu Glu Pro Glu Ser Tyr Ala Ala Tyr Val Trp
      180      185      190
Ile Pro Ser Ala Lys Thr Ile Leu Gly Gly Thr Gly Val Ser Trp Gly
      195      200      205
Ile His Val Trp Thr Ala Asp Thr Gln Thr Pro Glu Ser Arg Lys Gln
210      215      220
Trp Gln Gln Thr Leu Asp Ser Met Ala Ala Leu Lys Pro Glu His Val
225      230      235      240
Ile Pro Gly His Tyr Leu Gly Thr Pro Pro Ala Gly Thr Gly Ala Ile
      245      250      255
Asp Phe Thr Arg Arg Tyr Leu His Gln Phe Glu Gln Ala Leu Met Thr
      260      265      270
His Lys Ala Ser Thr Gly Val Ile Ser Thr Met Lys Lys Gln Trp Pro
      275      280      285
Asn Leu Ala Glu Ala Ser Ser Leu Glu Leu Ser Ala Lys Val Asn Thr
290      295      300
Gly Glu Met Lys Trp
305      310

```

<210> 8035

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 8035

```

Ile Thr Ile Leu His Ala Val Thr Leu Asn Arg Gln Arg His Gly Gly
1      5      10      15
Ser Met Phe Thr Tyr Tyr Pro Ala His Thr Thr Ala Ala Gln Pro Glu
      20      25      30
Leu Val Asn Ala Ile Ala Gln Gly Leu Gln Ala Glu His Gly Val Val
      35      40      45
Thr Glu Asp Asp Ile Leu Met Glu Leu Thr Lys Trp Val Glu Ala Thr
      50      55      60
Asp Asn Asp Ile Leu Ser Asp Ile Tyr Gln Gln Thr Ile Asn Tyr Val
65      70      75      80
Val Ser Gly Gln Asn Ala Pro Leu
      85

```

<210> 8036

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 8036

```

Lys Glu Lys His Met Lys Ala Ala Val Val Thr Gln Asp His Gln Val
1      5      10      15
Asn Val Thr Glu Lys Thr Leu Arg Ala Leu Lys His Gly Glu Ala Leu

```

```
<210> 8037
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

Arg 1	Thr	Lys	Gly	Ser 5	Ser	Met	Lys	Lys	Gln 10	Ile	Leu	Ile	Val	Gly 15	Ser
Gly	Phe	Ser	Gly 20	Met	Trp	Ala	Ala	Val 25	Ser	Ala	Ala	Arg	Leu 30	Ser	Ala
Leu	Ala	Gly 35	Asn	Asn	Ser	Leu	Ser 40	Ile	Ala	Val	Leu	Ala 45	Pro	Val	Ala
Glu	Leu 50	Arg	Val	Arg	Pro	Arg 55	Phe	Tyr	Glu	Glu	Asn 60	Val	Ser	Thr	Met
Val 65	Ala	Pro	Leu	Thr 70	Glu	Leu	Phe	Ala	Glu 75	Leu	Gly	Ile	Thr	Phe 80	Ile
Ala	Gly	Glu	Ala 85	Gln	Arg	Ile	Asp	Thr 90	Ser	Ser	Lys	Thr	Val	Leu 95	Tyr
Arg	Asp	Ser	Asn	Gly	Ala	Ile	Ala	Asp	Val	Ala	Trp	Glu	Arg	Leu	Ile

```
<210> 8038
<211> 704
<212> PRT
<213> Enterobacter cloacae
```

<400> 8038															
Thr	Glu	Arg	Gln	Leu	Ile	Gly	Thr	Glu	Gln	Ile	Thr	Phe	Leu	Gln	Ser
1				5					10					15	
Gly	Ile	Asn	Ala	Leu	Arg	Arg	Val	Val	Ile	Asn	Tyr	Ser	Val	Val	Val
			20					25					30		
Leu	Thr	Leu	Ser	Gly	Ala	Phe	Gln	Pro	Gly	Glu	Ile	Ile	Met	Ser	Thr
		35					40					45			
Gly	Lys	Phe	Ile	Leu	His	Ser	Gly	Tyr	Ile	Pro	Ser	Gly	Asp	Gln	Pro
	50					55					60				
Glu	Ala	Ile	Ala	Arg	Leu	Ile	Ala	Gly	Val	Glu	Ala	Gly	Ala	Thr	His
65				70					75					80	
Gln	Thr	Leu	Gln	Gly	Ile	Thr	Gly	Ser	Gly	Lys	Thr	Phe	Thr	Met	Ala
				85					90					95	
Asn	Val	Ile	His	Arg	Leu	Gln	Arg	Pro	Thr	Leu	Ile	Leu	Ala	Pro	Asn
			100					105					110		
Lys	Thr	Leu	Thr	Ala	Gln	Leu	Tyr	Leu	Glu	Met	Lys	Gln	Phe	Phe	Pro

Glu	Asn	Ala	Val	Glu	Tyr	Phe	Val	Ser	Tyr	Tyr	Asp	Phe	Phe	Gln	Pro	
	130					135					140					
Glu	Val	Tyr	Ile	Pro	Gly	Ser	Asp	Arg	Phe	Ile	Pro	Lys	Asp	Ser	Ala	
145					150					155					160	
Ile	Asn	Asp	His	Leu	Glu	Arg	Leu	Arg	Leu	Ser	Thr	Thr	Lys	Ala	Leu	
				165					170					175		
Ile	Glu	Arg	Gln	Asp	Val	Ile	Val	Val	Ala	Ser	Val	Ser	Ser	Ile	Tyr	
			180					185					190			
Gly	Leu	Gly	Asp	Pro	Asp	Ala	Tyr	Arg	Glu	Ile	Gln	Ile	Pro	Val	Tyr	
		195					200					205				
Pro	Gly	Arg	Gln	Leu	Ala	Gln	Arg	Glu	Leu	Ile	His	Gln	Leu	Ala	Arg	
	210					215					220					
Leu	Gln	Tyr	Ala	Arg	Thr	Asp	Lys	Thr	Leu	Gly	Arg	Ala	Met	Phe	Arg	
225					230					235					240	
Val	Arg	Gly	Asp	Val	Ile	Asp	Ile	Phe	Pro	Ala	Asp	Ser	Glu	His	Gln	
				245					250					255		
Ala	Ile	Arg	Val	Glu	Leu	Phe	Asp	Asp	Val	Ile	Glu	Ser	Ala	Lys	Trp	
			260				265						270			
Ile	Asp	Pro	Val	Ser	Gly	Lys	Ile	Ala	Gly	Asp	Ile	Glu	His	Tyr	Leu	
		275					280					285				
Ile	Ser	Pro	Lys	Thr	Leu	Phe	Val	Thr	Pro	Thr	Ala	Lys	Ile	Pro	Ser	
	290					295					300					
Ala	Thr	Lys	Ser	Ile	Leu	Thr	Asp	Met	Glu	Lys	Arg	Val	Ala	Glu	Leu	
305					310					315					320	
Asn	Lys	Ala	Asn	Arg	Leu	Ile	Glu	Ala	Glu	Arg	Leu	Tyr	Glu	Arg	Val	
				325					330					335		
Asn	Asn	Asp	Val	Glu	Met	Ile	Arg	Glu	Leu	Gly	Tyr	Cys	Ser	Gly	Met	
			340					345					350			
Glu	Asn	Tyr	Ser	Cys	Tyr	Phe	Ser	Asp	Arg	Asn	Pro	Glu	Leu	Pro	Pro	
		355					360					365				
Thr	Thr	Leu	Leu	Asp	Tyr	Leu	Pro	Lys	Asn	Gly	Leu	Leu	Phe	Val	Asp	
	370					375					380					
Glu	Ser	His	Val	Met	Val	Pro	Gln	Ile	Ser	Ala	Met	Tyr	Ser	Gly	Asp	
385					390					395					400	
Gln	Ser	Arg	Lys	Asp	Thr	Leu	Ile	Asp	Phe	Gly	Phe	Arg	Leu	Pro	Ser	
				405					410					415		
Ser	Lys	Asn	Asn	Arg	Pro	Leu	Ser	Phe	Ala	Glu	Phe	Glu	Lys	Ile	Lys	
			420					425					430			
Pro	Gln	Thr	Val	Phe	Val	Ser	Ala	Thr	Pro	Gly	Lys	Tyr	Glu	Leu	Gln	
		435					440					445				
Lys	Ser	Lys	Lys	Asn	Val	Val	Gln	Gln	Ile	Ile	Arg	Pro	Thr	Gly		

Gln	Ala	Met	Asp	Glu	Thr	His	Asn	Arg	Arg	Glu	Arg	Gln	Ile	Ala	Tyr
	610					615					620				
Asn	Leu	Glu	His	His	Ile	Lys	Pro	Val	Thr	Ser	Val	Arg	Lys	Arg	Ser
625					630					635					640
Thr	Glu	Gln	Asp	Glu	Ser	Val	Tyr	Pro	Ala	Thr	His	Thr	Glu	Ala	Phe
				645					650					655	
Cys	Ser	Thr	Leu	Ser	Glu	Leu	Cys	Glu	Arg	Ile	Thr	Val	Lys	Glu	Lys
			660					665					670		
Gln	Leu	Leu	Ala	Ile	Glu	Asn	Ser	Gly	Glu	Glu	Lys	Asp	Ile	Glu	Lys
		675				680					685				
Leu	Arg	Thr	Glu	Leu	Ser	Asp	Leu	Tyr	Arg	Gln	Phe	Ile	Phe	Met	
	690					695					700				

<210> 8039

<211> 903

<212> PRT

<213> Enterobacter cloacae

<400> 8039

Ala	Pro	His	Gly	Lys	Glu	Thr	Met	Thr	Val	Gly	Ser	Arg	Trp	Phe	Lys
1				5					10					15	
Phe	Asp	Phe	His	Asn	His	Thr	Pro	Ala	Ser	Asp	Asp	Tyr	Lys	Val	Pro
			20					25					30		
Asp	Leu	Gln	Pro	Arg	Glu	Trp	Leu	Leu	Ala	Tyr	Met	Arg	Gln	Gln	Val
	35						40					45			
Asp	Cys	Val	Val	Ile	Ser	Asp	His	Asn	Ser	Gly	Ala	Trp	Ile	Asp	Val
	50					55					60				
Leu	Lys	Ala	Glu	Leu	Ala	Asn	Met	Ser	Arg	Asp	Ala	Ser	Ser	Gly	Glu
65				70						75					80
Leu	Ala	Asp	Phe	Arg	Pro	Leu	Thr	Leu	Phe	Pro	Gly	Val	Glu	Leu	Thr
				85					90					95	
Ala	Thr	Gly	Asn	Val	His	Ile	Leu	Ala	Val	Leu	His	Thr	Gln	Ser	Thr
			100					105					110		
Ser	Ala	Glu	Val	Glu	Arg	Leu	Leu	Ala	Gln	Cys	Asn	Asn	Asn	Cys	Pro
	115						120					125			
Ile	Ser	Arg	Glu	Thr	Pro	Asn	His	His	Leu	Val	Leu	Gln	Leu	Gly	Pro
	130					135					140				
Ala	Gly	Ile	Ile	Ser	Asn	Ile	Arg	Arg	Asn	Pro	Glu	Ala	Ile	Cys	Ile
145					150					155					160
Leu	Ala	His	Ile	Asp	Ala	Ala	Lys	Gly	Val	Leu	Thr	Ser	Leu	Thr	Asn
				165					170					175	
Gln	Gly	Glu	Leu	Thr	Ala	Ala	Phe	Gln	Ser	Asn	Pro	His	Ala	Val	Glu
			180					185					190		
Ile	Arg	His	Arg	Glu	Glu	Glu	Ile	Thr	Asn	Gly	Thr	His	Arg	Arg	Leu
		195					200					205			
Ile	Ala	Asp	Leu	Pro	Trp	Leu	Arg	Gly	Ser	Asp	Ala	His	His	Pro	Glu
	210					215					220				
Gln	Ala	Gly	Val	Arg	Thr	Cys	Trp	Leu	Lys	Met	Ser	Glu	Pro	Asp	Phe
225					230					235					240
Asp	Gly	Leu	Arg	His	Ala	Leu	Leu	Asp	Pro	Glu	Asn	Cys	Val	Leu	Phe
				245					250					255	
Asp	Asp	Asn	Pro	Pro	Glu	Ala	Pro	Ala	Ser	His	Leu	Arg	Ser	Leu	Thr
			260					265					270		
Phe	Arg	Thr	Arg	Leu	Cys	Gln	Pro	Ala	Asp	Gln	Tyr	Gly	Ala	Ser	Val
	275						280					285			
Glu	Phe	Ser	Pro	Phe	Tyr	Asn	Ala	Val	Ile	Gly	Ser	Arg	Gly	Ser	Gly
	290					295					300				
Lys	Ser	Thr	Leu	Ile	Glu	Ser	Ile	Arg	Leu	Ala	Met	Arg	Lys	Thr	Glu
305					310					315					320
Gly	Leu	Thr	Val	Ser	Gln	Arg	Asn	Lys	Leu	Asn	Gln	Phe	Ser	Gln	Met
				325					330					335	

Gly	Met	Gly	Met	Asp	Ala	Asp	Ser	Phe	Ile	Glu	Cys	Val	Phe	Arg	Lys
			340					345					350		
Glu	Gly	Thr	Asp	Phe	Arg	Leu	Ser	Trp	Arg	Pro	Asp	Gly	Arg	Asn	Glu
		355					360					365			
Leu	His	Ile	Phe	Ser	Glu	Gly	Gln	Trp	Val	Gln	Asp	Asn	His	Trp	Ser
	370					375					380				
Pro	Asp	Arg	Phe	Pro	Leu	Ser	Ile	Tyr	Ser	Gln	Lys	Met	Leu	Tyr	Glu
385					390					395					400
Leu	Ala	Ser	Asp	Thr	Gly	Ala	Phe	Leu	Arg	Val	Cys	Asp	Glu	Ser	Gln
				405					410					415	
Val	Val	Asn	Lys	Arg	Ala	Trp	Lys	Glu	Arg	Trp	Asp	Gln	Leu	Glu	Arg
			420					425					430		
Glu	Tyr	Leu	Asn	Glu	Gln	Ile	Thr	Leu	Arg	Gly	His	Leu	Ala	Ser	Gln
		435					440					445			
Thr	Ile	Ala	Asp	Lys	Leu	Gln	Gly	Glu	Leu	Ser	Asp	Ala	Glu	Arg	Ala
	450					455					460				
Val	Ser	Gln	Leu	Arg	Ser	Ser	Ala	Tyr	Tyr	Pro	Val	Cys	Thr	Arg	Leu
465					470					475					480
Ala	Thr	Ala	Arg	Ala	Glu	Leu	Ser	Ala	Ala	Thr	Leu	Pro	Leu	Glu	His
				485					490					495	
His	Glu	Gln	His	Val	Ala	Gly	Leu	Arg	Ala	Gln	Glu	Lys	Glu	Pro	Val
			500					505					510		
Gln	Val	Pro	Glu	Leu	Gln	Val	Glu	Pro	Ser	Ala	Thr	Leu	Thr	Ala	Phe
		515					520					525			
Met	Thr	Arg	Leu	Ser	Asp	Val	Gln	Gln	Lys	Tyr	Asp	Gln	Arg	Leu	Asp
	530					535					540				
Thr	Leu	Leu	Ser	Asp	Tyr	Ala	Ala	Glu	Leu	Ser	Thr	Ile	Arg	Gln	Asp
545				550						555					560
Pro	Pro	Leu	Leu	Ala	Leu	Glu	Glu	Ala	Val	Arg	Asn	Gln	Glu	Glu	Thr
				565					570					575	
Val	Gln	Arg	Glu	Ala	Met	Val	Leu	Arg	Glu	Gln	Gly	Leu	Asn	Pro	Asn
			580					585					590		
Val	Leu	Asp	Glu	Leu	Met	Thr	Arg	Cys	Glu	Ser	Leu	Lys	Ser	Glu	Leu
		595					600					605			
Arg	Asn	Tyr	Ala	Asp	Leu	Asp	Gly	Thr	Ile	Ala	Ala	Ser	Ala	Ala	Arg
	610					615					620				
Ser	Thr	Gly	Leu	Leu	Ala	Glu	Met	Arg	Asn	His	Arg	Met	Val	Leu	Thr
625					630					635					640
Glu	Lys	Arg	Lys	Ala	Phe	Leu	Ser	Ser	Leu	Ser	Leu	Ser	Ala	Leu	Asp
				645					650					655	
Ile	Lys	Ile	Leu	Pro	Leu	Cys	Ala	Pro	His	Glu	Asp	Thr	Val	Ser	Gly
			660					665					670		
Tyr	Gln	Ala	Val	Thr	Gly	Ile	Gly	Asn	Phe	Ala	Asp	Arg	Ile	Tyr	Asp
		675					680					685			
Asp	Gly	Asp	Gly	Ser	Gly	Leu	Leu	His	Ser	Phe	Ile	Ser	Leu	Arg	Pro
	690					695					700				
Tyr	Ser	Pro	Leu	Pro	Ser	Ala	Thr	Glu	Asn	Lys	Tyr	Leu	Ala	Leu	Asp
705					710					715					720
Thr	Leu	Lys	Ala	Leu	His	Leu	Ala	Ile	His	Arg	Glu	Glu	Pro	Gly	Ala
				725					730					735	
Gly	Ser	Glu	Leu	His	Gly	Ala	Phe	Arg	Asn	Arg	Leu	Lys	Gly	Leu	Asn
			740					745					750		
Asp	Ala	Gln	Leu	Asp	Ala	Leu	Gln	Cys	Trp	Tyr	Pro	Asp	Asp	Gly	Ile
		755					760					765			
His	Ile	Arg	Tyr	Gln	Thr	Pro	Gly	Gly	Gly	Met	Glu	Asp	Ile	Ser	Ser
	770					775					780				
Ala	Ser	Pro	Gly	Gln	Lys	Gly	Ala	Ser	Met	Leu	Gln	Phe	Leu	Leu	Ser
785					790					795					800
Tyr	Gly	Thr	Asp	Pro	Leu	Leu	Leu	Asp	Gln	Pro	Glu	Asp	Asp	Leu	Asp
				805					810					815	
Cys	Leu	Met	Leu	Ser	Met	Ser	Val	Ile	Pro	Ala	Ile	Met	Ala	Asn	Lys

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<210> 8040
<211> 147
<212> PRT
<213> Enterobacter cloacae
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<210> 8041
<211> 350
<212> PRT
<213> Enterobacter cloacae
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<400> 8041																
Ser	Ala	Pro	Leu	Asn	Thr	Gly	Glu	Leu	Met	Ile	Thr	Phe	Glu	Ile	Arg	
1				5					10					15		
Met	Glu	Ile	Lys	Val	Leu	His	Lys	Arg	Gly	Met	Ser	Ile	Arg	Ala	Ile	
			20					25					30			
Ala	Arg	Glu	Leu	Gly	Ile	Ser	Arg	Asn	Thr	Val	Arg	Ser	His	Leu	Lys	
			35					40					45			
Ala	Lys	Ser	Glu	Lys	Pro	Gln	Tyr	Ser	Pro	Arg	Pro	Ala	Pro	Ser	Ser	
			50				55					60				
Leu	Leu	Asp	Glu	Tyr	Arg	Asp	Tyr	Ile	Ser	Lys	Arg	Ile	Ser	Asp	Ala	
65					70					75					80	
His	Pro	Tyr	Lys	Ile	Pro	Ala	Thr	Val	Ile	Ala	Arg	Glu	Ile	Met	Glu	
				85					90					95		
Leu	Gly	Tyr	Arg	Gly	Gly	Leu	Thr	Ile	Leu	Arg	Glu	Phe	Ile	Arg	Lys	
			100					105					110			
Gln	Thr	Leu	Pro	Ala	Gln	Ala	Glu	Pro	Val	Val	Arg	Phe	Glu	Thr	Glu	
			115				120					125				

Pro Gly Arg Gln Met Gln Val Asp Trp Gly Thr Met Arg Asn Gly Lys
 130 135 140
 Ser Pro Leu His Val Phe Val Ala Val Leu Gly Tyr Ser Arg Met Leu
 145 150 155 160
 Tyr Ile Glu Phe Thr Asp Asn Met Arg Tyr Asp Thr Leu Glu Ala Cys
 165 170 175
 His Arg Asn Ala Phe Ser Phe Phe Gly Gly Val Pro Gln Glu Val Leu
 180 185 190
 Tyr Asp Asn Met Lys Thr Val Val Leu Gln Arg Asp Ala Tyr Gln Thr
 195 200 205
 Gly Gln His Arg Phe His Pro Ser Leu Trp Gln Phe Gly Lys Glu Met
 210 215 220
 Gly Phe Ser Pro Arg Leu Cys Arg Pro Phe Arg Ala Gln Thr Lys Gly
 225 230 235 240
 Lys Val Glu Arg Met Val Gln Tyr Ala Arg Asn Ser Phe Tyr Ile Pro
 245 250 255
 Leu Met Thr Arg Leu Arg Pro Met Gly Ile Thr Val Asp Val Glu Thr
 260 265 270
 Ala Asn Arg Tyr Gly Leu Arg Trp Leu Tyr Asp Val Ala Asn Gln Arg
 275 280 285
 Lys His Glu Thr Ile Gln Thr Arg Pro Cys Asp Arg Trp Val Glu Glu
 290 295 300
 Gln Gln Ser Met Leu Ala Leu Pro Pro Glu Lys Lys Gln Tyr Asp Val
 305 310 315 320
 Gln Val Asp Glu Ser Leu Met Thr Phe Asp Arg Gln Pro Leu His His
 325 330 335
 Pro Leu Ser Ile Tyr Asp Thr Phe Cys Arg Gly Ala Ala
 340 345 350

<210> 8042

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 8042

Arg Ser Glu Ile Asn Ser Ser Trp Arg Thr Leu Pro Asp Val Phe Leu
 1 5 10 15
 Lys Thr Ile Arg Leu Pro Arg Asp Leu Asp Phe Glu Gly Val Ser Glu
 20 25 30
 Leu Lys Ile Val Arg Glu Gly Asp Cys Ile Ile Leu Arg Pro Val Arg
 35 40 45
 Pro Thr Trp Cys Ser Phe Ala Gln Leu Glu Lys Ala Glu Pro Asp Phe
 50 55 60
 Met Val Glu Arg Gly Asp Val Val Ser Asp Glu Gly Arg Phe Asp Leu
 65 70 75 80

<210> 8043

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 8043

Thr Pro Lys Leu Leu Ile Val Ile Leu Thr Phe Leu Lys Glu Lys Asn
 1 5 10 15
 Met Thr Glu Gln Asn Asn Phe Gly Gln Tyr Ile Gly Ser His Leu Asp
 20 25 30
 Asp Asp Val Thr Leu Ser Leu Pro Asp Leu Arg Gln Leu Pro Gly Arg
 35 40 45
 Tyr Cys Thr Leu Gln Leu Leu Ser Thr Arg His Gly Asn Asp Leu Phe

50						55					60				
Gln	Gly	Trp	His	Ser	Ile	Glu	Asp	Ser	Arg	Asp	Trp	Thr	Tyr	Leu	Pro
65					70					75					80
Asp	Glu	Arg	Pro	Pro	Thr	Lys	Gln	Ala	Thr	His	Ser	Tyr	Ile	Gln	Gln
				85					90					95	
Leu	Ile	Gln	Gln	Lys	Gly	Val	Tyr	His	Tyr	Ala	Ile	Ile	Glu	Asn	Asn
			100					105					110		
Ser	Glu	Asn	Ala	Val	Gly	Thr	Leu	Ser	Leu	Tyr	Asn	Leu	Asp	Asn	Lys
		115					120					125			
Asn	Asp	Val	Ala	Glu	Ile	Gly	Gly	Val	His	Leu	Thr	Pro	Val	Ile	Lys
	130					135					140				
Arg	Thr	Ser	Val	Ser	Thr	Glu	Ala	Ile	Phe	Leu	Ile	Leu	Ser	Tyr	Val
145					150					155					160
Phe	Asp	Val	Leu	Lys	Tyr	Arg	Arg	Cys	Glu	Trp	Gln	Thr	Asp	Arg	Leu
				165				170						175	
Asn	Ser	Gln	Gly	Met	Arg	Ser	Ala	Glu	Arg	Leu	Gly	Phe	Gln	Lys	Glu
			180				185						190		
Gly	Val	Leu	Arg	Asn	Lys	Gln	Ile	Leu	Lys	Ser	Arg	Ser	Val	Asp	Val
	195						200					205			
Val	Met	Tyr	Ser	Ile	Ile	Gln	Asp	Glu	Trp	Glu	Arg	Ile	Ser	Ser	Ala
	210					215					220				
Ile	Thr	Ile	Trp	Leu	Arg	Thr	Val	Asn	Phe	Asp	Asp	Arg	Gly	His	Gln
225					230					235					240
Ile	His	Pro	Leu	Arg	His	Tyr	Leu	Ala	Thr	Thr	Glu	Pro			
				245					250						

<210> 8044

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 8044

Met	Lys	Ile	Met	Asn	Ala	Glu	Ile	Glu	Arg	Gln	Ile	Trp	His	His	Asn
1				5					10					15	
Leu	Ser	Tyr	Leu	Leu	Leu	Ala	Gln	Arg	Val	Leu	Asn	His	Tyr	Glu	Asp
			20					25					30		
Thr	Ala	Leu	Phe	Arg	Leu	Gly	Ile	Asp	Lys	Cys	Thr	Gly	Asp	Lys	Leu
		35				40						45			
Leu	Gln	Leu	Ser	Leu	Pro	Glu	Leu	Val	Arg	Leu	Ala	Glu	Arg	Pro	Glu
	50					55					60				
Leu	Ile	Thr	Val	Leu	Arg	Leu	Arg	Asp	His	His	Gln	Ile	Asp	Val	Leu
65					70					75					80
Leu	Ser	Gln	Ser	Thr	Gly	Met	Gly								
				85											

<210> 8045

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 8045

His	Met	Lys	Ser	Arg	Ala	Ala	Val	Ala	Phe	Ala	Pro	Gly	Lys	Pro	Leu
1				5					10					15	
Glu	Ile	Val	Glu	Ile	Asp	Val	Glu	Pro	Pro	Arg	Lys	Gly	Glu	Val	Leu
			20					25					30		
Val	Lys	Ile	Thr	His	Thr	Gly	Val	Cys	His	Thr	Asp	Ala	Phe	Thr	Leu
		35				40						45			
Ser	Gly	Asp	Asp	Pro	Glu	Gly	Val	Phe	Pro	Ala	Val	Leu	Gly	His	Glu
	50					55					60				
Gly	Ala	Gly	Val	Val	Val	Glu	Val	Gly	Glu	Gly	Val	Thr	Ser	Val	Lys
65					70				75						80

Pro Gly Asp His Val Ile Pro Leu Tyr Thr Ala Glu Cys Gly Glu Cys
 85 90 95
 Leu Phe Cys Lys Ser Gly Lys Thr Asn Leu Cys Val Ser Val Arg Ala
 100 105 110
 Thr Gln Gly Lys Gly Leu Met Pro Asp Gly Thr Thr Arg Phe Ser Tyr
 115 120 125
 Lys Gly Gln Pro Leu Phe His Tyr Met Gly Cys Ser Thr Phe Ser Glu
 130 135 140
 Tyr Thr Val Val Ala Glu Val Ser Leu Ala Lys Ile Asn Pro Gln Ala
 145 150 155 160
 Asn His Glu His Val Cys Leu Leu Gly Cys Gly Val Thr Thr Gly Ile
 165 170 175
 Gly Ala Val His Asn Thr Ala Lys Val Gln Pro Gly Asp Thr Val Ala
 180 185 190
 Ile Phe Gly Leu Gly Gly Ile Gly Leu Ala Ala Val Gln Gly Ala Arg
 195 200 205
 Gln Ala Lys Ala Gly Arg Ile Phe Ala Ile Asp Thr Asn Pro Glu Lys
 210 215 220
 Phe Asp Leu Ala Arg Ser Phe Gly Ala Thr Asp Cys Ile Asn Pro Lys
 225 230 235 240
 Asp Tyr Asp Lys Pro Ile Gln Asp Val Leu Ile Glu Leu Thr Gly Trp
 245 250 255
 Gly Val Asp His Thr Phe Glu Cys Ile Gly Asn Val Asn Val Met Arg
 260 265 270
 Ser Ala Leu Glu Ala Ala His Arg Gly Trp Gly Gln Ser Val Val Ile
 275 280 285
 Gly Val Ala Gly Ala Gly Lys Glu Ile Ser Thr Arg Pro Phe Gln Leu
 290 295 300
 Val Thr Gly Arg Val Trp Lys Gly Ser Ala Phe Gly Gly Val Lys Gly
 305 310 315 320
 Arg Thr Gln Leu Pro Gly Met Val Glu Asp Ala Met Lys Gly Glu Ile
 325 330 335
 Tyr Leu Ala Pro Phe Val Thr His Thr Met Gly Leu Glu Glu Ile Asn
 340 345 350
 Asp Ala Phe Asn Leu Met His Glu Cys Lys Ser Ile Arg Thr Val Ile
 355 360 365
 His Tyr
 370

<210> 8046

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 8046

Leu Ala Val Arg Lys Arg Glu Ser Leu Met Lys Glu Ser Ala Leu Ser
 1 5 10 15
 Ala Ile Arg Ser Asp Met Gln Ser Pro Glu Thr Val Tyr Gly Met Pro
 20 25 30
 Ala His Lys Asp Arg Thr Ala Ala Val Asn Glu Val His Ala Arg Pro
 35 40 45
 His Leu Leu Ile Thr Ser Pro Gln Thr Leu Leu Gln Phe Ala Phe Met
 50 55 60
 Thr Lys Gly Asp Gln Ser Gly Asp Gln Arg Phe Met Val Glu Leu Ser
 65 70 75 80
 Asp Arg Leu Gly Leu Thr Pro Ser Glu Asn Ser Ala Pro Leu His Gly
 85 90 95
 Ile Thr Trp Arg Glu Gly Ala Leu Tyr Cys Glu Lys His Gly Glu Phe
 100 105 110
 Ser Thr Tyr Leu Trp Ser Thr Thr Cys Asp Pro Arg Asp Gly Gln Leu
 115 120 125

Arg Gly Glu Asn Pro Phe Arg His Gly Phe Thr Pro Pro Gly Ser Val
 130 135 140
 Ile Cys Gly Thr Arg Leu Asp Ile Leu Pro Trp Thr Ala Glu Ser Glu
 145 150 155 160
 Ala Ala Val Thr Asn Leu Asp Pro Val Ser Arg Cys Tyr Ser Val Thr
 165 170 175
 Glu Asn Gly Arg Ala Ala Ile Ile Ser Asp Phe Arg Gln Asp Lys Asp
 180 185 190
 Gly Leu Thr Arg Ile Leu Ile Leu Glu Arg Asp Leu Thr Glu Ala Gln
 195 200 205
 Leu Gly Ala Leu Val Gln Arg Leu Leu Glu Ile Glu Asn Tyr Arg Thr
 210 215 220
 Leu Ala Leu Leu Ser Leu Pro Leu Thr Arg Thr Met Ala Ser Glu Leu
 225 230 235 240
 Arg Arg Val Glu Asn Arg Leu Ala Glu Ile Thr Glu Glu Met Arg Thr
 245 250 255
 Gly Glu His Arg Lys Asn Glu Gln Leu Leu Ser Ala Leu Thr Asn Leu
 260 265 270
 Ala Ala Glu Leu Glu Ala Gly Ala Ala Asn Leu Tyr Arg Phe Gly
 275 280 285
 Ala Ser Gln Ala Tyr Tyr Glu Ile Val Glu Glu Arg Leu Asn Thr Leu
 290 295 300
 Ser Glu Thr Pro Val Pro Gly Tyr Tyr Thr Trp Ser Asp Phe Leu Gln
 305 310 315 320
 Arg Arg Ile Ala Pro Ala Met Arg Thr Cys Arg Ser Val Lys Glu Arg
 325 330 335
 Gln Ala Lys Leu Ser Asp Lys Leu Met Arg Ala Ile Ser Leu Leu Arg
 340 345 350
 Ser Trp Ile Asp Val Glu Leu Glu His Gln Asn Arg Asp Leu Leu Ala
 355 360 365
 Ser Met Asn Asn Arg Ala Arg Gln Gln Leu His Leu Gln Gln Thr Val
 370 375 380
 Glu Gly Leu Ser Val Ala Ala Ile Ser Tyr Tyr Val Val Ser Leu Ile
 385 390 395 400
 Ser Tyr Leu Val Lys Gly Val Pro Gly Ile His Asp Val Met Pro Pro
 405 410 415
 Glu Leu Ala Val Ala Ile Leu Val Pro Phe Ile Val Leu Ala Ile Trp
 420 425 430
 Trp Val Val Arg Arg Ile Arg Asn Ser His Thr Asp Pro Glu His Asn
 435 440 445
 Glu Asn Arg Ser Asp
 450

<210> 8047

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 8047

Leu Arg Ser Glu Thr Arg Ala Ala Ile Arg Val Tyr Pro His Ser His
 1 5 10 15
 Arg Ser Ser His Leu Leu Arg Cys Pro Gly Gly Glu Asn Ala Leu Ser
 20 25 30
 Ala Tyr Leu Gly Asp Asp Arg Glu Tyr Trp Lys Gln Tyr Asp Thr Val
 35 40 45
 Glu Leu Ile Arg Lys Ala Gln Glu Arg Leu Pro Leu Leu Val Asp Gln
 50 55 60
 Gly Leu Asn Asp Glu Phe Leu Lys Thr Gln Leu Gln Pro Glu Arg Leu
 65 70 75 80
 Lys Ser Val Cys Glu Asp Thr Gly His Pro Leu Thr Leu Asn Leu Arg
 85 90 95

Pro Gly His Asp His Ser Tyr Tyr Phe Ile Ser Ser Tyr Ile Gly Asp
 100 105 110
 His Ile Ala His His Ala Ala Ala Leu Thr Arg
 115 120

<210> 8048

<211> 885

<212> PRT

<213> Enterobacter cloacae

<400> 8048

Thr Met Ser Lys Lys Leu Phe Gly Ala Pro Pro Thr Leu Thr Asp Ala
 1 5 10 15
 Ser Asn Ser Val Val Val Arg Gly Ala Arg Glu His Asn Leu Lys Glu
 20 25 30
 Val Asp Val Ser Val Pro Arg Asp Ala Leu Val Val Phe Ser Gly Val
 35 40 45
 Ser Gly Ser Gly Lys Ser Ser Leu Ala Phe Gly Thr Ile Tyr Ala Glu
 50 55 60
 Ala Gln Arg Arg Tyr Phe Glu Ser Val Ala Pro Tyr Ala Arg Arg Leu
 65 70 75 80
 Ile Asp Gln Ala Gly Val Pro Asp Val Asp Ala Ile Asp Gly Leu Pro
 85 90 95
 Pro Ala Val Ala Leu Gln Gln Gln Arg Gly Thr Ser Asn Ala Arg Ser
 100 105 110
 Ser Val Gly Ser Val Thr Thr Leu Ser Ser Leu Val Arg Met Met Tyr
 115 120 125
 Ser Arg Ala Gly Ala Tyr Pro Ala Glu Gln Pro Met Leu Tyr Ala Glu
 130 135 140
 Asp Phe Ser Pro Asn Thr Pro Gln Gly Ala Cys Pro Ser Cys His Gly
 145 150 155 160
 Leu Gly His Ile Tyr Asp Val Thr Glu Ala Leu Met Val Pro Asp Pro
 165 170 175
 Ser Leu Ser Ile Arg Asp Arg Ala Ile Ala Ser Trp Pro Pro Ala Trp
 180 185 190
 His Gly Gln Asn Leu Arg Asp Ile Leu Val Thr Leu Gly Tyr Asp Val
 195 200 205
 Asp Ile Pro Trp Lys Glu Leu Ser Glu Glu Glu Arg His Trp Ile Leu
 210 215 220
 Phe Thr Glu Asp Thr Pro Thr Val Pro Val Tyr Pro Gly Leu Ser Pro
 225 230 235 240
 Glu Asp Thr Arg Val Ala Val Arg Glu Lys Met Thr Pro Gly Tyr Met
 245 250 255
 Gly Thr Phe Thr Gly Ala Arg Arg Tyr Val Leu His Thr Phe Ala His
 260 265 270
 Thr Gln Ser Ala Leu Met Arg Lys Arg Val Ser Ser Phe Met Glu Gly
 275 280 285
 Lys Leu Cys Pro Val Cys His Gly Lys Arg Leu Lys Pro Glu Ser Leu
 290 295 300
 Ser Val Thr Phe Ala Gly Val Asp Ile Gly Glu Phe Met Gln Met Pro
 305 310 315 320
 Leu Asp Gln Leu Ala Glu Leu Leu Leu Pro Ile Ser Arg Gly Asp Phe
 325 330 335
 Ser Thr His His Ala Gly Ala Asp Thr Asp Arg Asp Ile Thr Arg Arg
 340 345 350
 Asp Arg Thr Glu Arg Ala Gly Ser Gly Arg Ala Val His Ser Val Thr
 355 360 365
 Pro Asp Val Arg Arg Thr Ser Ala Leu Ser Thr Glu Lys Arg Leu Ala
 370 375 380
 Ala Gln Arg Leu Thr Arg Gly Val Met Asp Arg Leu Tyr Gln Leu Gln
 385 390 395 400

Lys Leu Gly Leu Gly Tyr Leu Thr Leu Asp Arg Thr Thr Pro Thr Leu
 405 410 415
 Ser Ala Gly Glu Leu Gln Arg Leu Arg Leu Ala Thr Gln Leu Ser Ser
 420 425 430
 Met Leu Phe Gly Val Val Tyr Val Leu Asp Glu Pro Ser Ala Gly Leu
 435 440 445
 His Pro Ala Asp Ser His Ala Leu Tyr Asp Ala Leu Glu Asn Leu Arg
 450 455 460
 Asp Ala Gly Asn Ser Val Phe Val Val Glu His Asp Leu Asp Leu Met
 465 470 475 480
 Arg Arg Ala Gln Trp Leu Val Asp Val Gly Pro Ala Ala Gly Glu Gln
 485 490 495
 Gly Gly His Ile Leu Tyr Ser Gly Val Pro Glu Gly Leu Lys Ala Ile
 500 505 510
 Ala Glu Ser Arg Thr Ala Arg Tyr Leu Phe Asp Glu Ile Arg Pro Pro
 515 520 525
 Gln Ser Tyr Ala Arg Gln Pro Ala Gly Trp Leu Lys Leu Gln Asp Ile
 530 535 540
 His Arg His Asn Leu Lys Gly Leu Asp Ala Cys Ile Pro Leu Gly Val
 545 550 555 560
 Leu Thr Ala Val Thr Gly Ile Ser Gly Ser Gly Lys Ser Ser Leu Ile
 565 570 575
 Ala Gln Ala Leu Pro Glu Leu Val Leu Ser Ser Leu Gly His Glu Pro
 580 585 590
 Glu Asp Val Leu Ser Glu Gly Ser Asp Ala Glu Gly Pro Thr Val Thr
 595 600 605
 Glu Lys Thr Tyr Gly Thr Leu Thr Gly Asp Thr Gly Leu Ile Lys Arg
 610 615 620
 Leu Val Gln Val Asp Gln Lys Pro Ile Gly Arg Thr Pro Arg Ser Asn
 625 630 635 640
 Leu Ala Thr Tyr Thr Gly Leu Phe Asp His Ile Arg Lys Leu Phe Ala
 645 650 655
 Gly Thr Pro Ala Ala Lys Asn Tyr His Tyr Asp Ala Gly Gln Phe Ser
 660 665 670
 Phe Asn Val Ala Lys Gly Arg Cys Glu Thr Cys Glu Gly Glu Gly Phe
 675 680 685
 Val Ser Val Glu Leu Leu Phe Met Pro Ser Val Tyr Ala Pro Cys Pro
 690 695 700
 Thr Cys His Gly Ala Arg Tyr Asn Pro Asp Thr Leu Arg Val Arg Trp
 705 710 715 720
 Lys Glu Arg Asn Ile Ala Glu Val Leu Gln Met Thr Val Asp Glu Ala
 725 730 735
 Cys Ser Phe Phe Ala Asp Val Glu Pro Val Ala Arg Pro Leu Arg Leu
 740 745 750
 Leu Gly Glu Ile Gly Leu Gly Tyr Leu Arg Leu Gly Gln Pro Ala Thr
 755 760 765
 Glu Leu Ser Gly Gly Glu Ala Gln Arg Ile Lys Leu Ala Thr Glu Leu
 770 775 780
 Gln Arg Ser Gln Arg Gly His Thr Leu Tyr Val Leu Asp Glu Pro Thr
 785 790 795 800
 Thr Gly Leu His Ala Ser Asp Ala Asp Arg Leu Leu Val Gln Leu Gln
 805 810 815
 Arg Leu Val Glu Thr Gly Asn Thr Val Val Val Ile Glu His Asp Met
 820 825 830
 Arg Ala Val Val Gln Ala Asp Trp Val Met Asp Ile Gly Pro Gly Ala
 835 840 845
 Gly His Glu Gly Gly Asn Leu Val Ala Glu Gly Thr Pro Ala Gln Val
 850 855 860
 Ser Gln Val Cys Glu Ser Arg Thr Ala Pro Phe Ile Ala Arg Glu Leu
 865 870 875 880
 Ser Arg Asn Trp

885

<210> 8049
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 8049

Glu	Met	Pro	Ser	Thr	Pro	Glu	Glu	Lys	Lys	Lys	Val	Leu	Thr	Arg	Val
1				5					10					15	
Arg	Arg	Ile	Arg	Gly	Gln	Ile	Asp	Ala	Leu	Glu	Arg	Ala	Leu	Glu	Asn
			20					25					30		
Gly	Ala	Glu	Cys	Arg	Ala	Ile	Leu	Gln	Gln	Ile	Ala	Ala	Val	Arg	Gly
		35					40					45			
Ala	Ser	Asn	Gly	Leu	Met	Ala	Glu	Val	Leu	Glu	Ser	His	Ile	Arg	Glu
	50					55					60				
Thr	Phe	Asp	Gln	Asn	Asp	Asn	Tyr	Ser	His	Glu	Val	Ser	Lys	Ser	Val
65				70						75					80
Asp	Asp	Thr	Ile	Glu	Leu	Val	Arg	Ala	Tyr	Leu	Lys				
				85					90						

<210> 8050
 <211> 268
 <212> PRT
 <213> Enterobacter cloacae

<400> 8050

His	Val	Leu	Gln	Arg	Ser	Arg	Met	Met	Val	Glu	Leu	Gln	His	Gln	Arg
1				5					10					15	
Leu	Met	Val	Leu	Ala	Glu	Gln	Leu	Gln	Leu	Asp	Ser	Leu	Ile	Gly	Ala
			20					25					30		
Ala	Pro	Ala	Leu	Ser	Gln	Gln	Ala	Val	Asp	Gln	Glu	Trp	Ser	Tyr	Met
		35					40					45			
Asp	Phe	Leu	Glu	His	Leu	Leu	His	Glu	Glu	Lys	Leu	Ala	Arg	His	Gln
	50				55					60					
Arg	Lys	Gln	Ala	Met	Tyr	Thr	Arg	Met	Ala	Ala	Phe	Pro	Ala	Val	Lys
65				70					75						80
Thr	Phe	Glu	Glu	Tyr	Asp	Phe	Thr	Phe	Ala	Thr	Gly	Ala	Pro	Gln	Lys
				85					90					95	
Gln	Ile	Gln	Ser	Leu	Arg	Ser	Leu	Ser	Phe	Ile	Glu	Arg	Asn	Glu	Asn
			100					105					110		
Ile	Val	Leu	Leu	Gly	Pro	Ser	Gly	Val	Gly	Lys	Thr	His	Leu	Ala	Ile
		115					120					125			
Ala	Met	Gly	Tyr	Glu	Ala	Val	Arg	Ala	Gly	Ile	Lys	Val	Arg	Phe	Thr
	130					135					140				
Thr	Ala	Ala	Asp	Leu	Leu	Leu	Gln	Leu	Ser	Thr	Ser	Gln	Arg	Gln	Gly
145				150						155					160
Arg	Tyr	Lys	Thr	Thr	Leu	Asn	Arg	Gly	Val	Met	Ala	Pro	Lys	Leu	Leu
				165					170					175	
Ile	Ile	Asp	Glu	Ile	Gly	Tyr	Leu	Pro	Phe	Ser	Gln	Glu	Glu	Ala	Lys
		180					185					190			
Leu	Phe	Phe	Gln	Val	Ile	Ala	Lys	Arg	Tyr	Glu	Lys	Ser	Ala	Met	Ile
		195					200					205			
Leu	Thr	Ser	Asn	Leu	Pro	Phe	Gly	Gln	Trp	Asp	Gln	Thr	Phe	Ala	Gly
	210					215					220				
Asp	Ala	Ala	Leu	Thr	Ser	Ala	Met	Leu	Asp	Arg	Ile	Leu	His	His	Ser
225				230						235					240
His	Val	Val	Gln	Ile	Lys	Gly	Glu	Ser	Tyr	Arg	Leu	Lys	Gln	Lys	Arg
			245						250					255	
Lys	Ala	Gly	Val	Ile	Ala	Glu	Ala	Asn	Pro	Glu					
			260					265							

CCP = F000000000

<210> 8051
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 8051
 Pro Val Asn Lys Ile Tyr Met Leu Asp Thr Asn Ile Cys Ser Phe Ile
 1 5 10 15
 Met Arg Glu Gln Ser Glu Val Val Leu Lys Arg Leu Glu Pro Ala Val
 20 25 30
 Leu Arg Asp Gln Arg Ile Val Val Ser Val Ile Thr Tyr Ser Glu Met
 35 40 45
 Arg Phe Gly Ala Thr Gly Pro Lys Ala Ser Pro Pro Arg Glu Gln Leu
 50 55 60
 Val Asp Ala Phe Cys Val Pro Phe
 65 70

<210> 8052
 <211> 96
 <212> PRT
 <213> Enterobacter cloacae

<400> 8052
 Gln Gly Gln Ser Met Pro His Ser Pro Glu Glu Lys Lys Gln Ala Leu
 1 5 10 15
 Val Arg Val Arg Arg Ile Lys Gly Gln Ile Ala Ala Leu Glu Gln Ala
 20 25 30
 Ile Glu Asn Glu Ala Glu Cys Ser Ser Leu Leu Gln Gln Leu Ala Ser
 35 40 45
 Val Arg Gly Ala Val Lys Gly Leu Met Thr Val Val Leu Glu Ser Tyr
 50 55 60
 Leu Arg Glu Glu Phe Pro Asp Thr Asn Lys Arg Arg Gly Ser Gln Thr
 65 70 75 80
 Lys Ser Ile Asn Asp Ala Ile Ser Ile Val Arg Ser Tyr Leu Arg
 85 90 95

<210> 8053
 <211> 207
 <212> PRT
 <213> Enterobacter cloacae

<400> 8053
 Leu Ser Cys Tyr Val Val Ala Glu Leu Ser Cys Arg Tyr Thr Glu Lys
 1 5 10 15
 Ile Met Glu Arg Leu Glu His His Ala Ser Phe Asp Gly Trp Gln Glu
 20 25 30
 Val Tyr Gln His Glu Ser Gly Thr Leu Gly Cys Thr Met Lys Phe Gly
 35 40 45
 Val Tyr Thr Pro Pro Gln Ala Leu Asn Gly Asn Val Pro Val Leu Tyr
 50 55 60
 Trp Leu Ser Gly Leu Thr Cys Thr Glu Gln Asn Phe Ile Thr Lys Ser
 65 70 75 80
 Ser Val Gln Arg Tyr Ala Ala Glu His Gly Ile Met Ile Val Ala Pro
 85 90 95
 Asp Thr Ser Pro Arg Gly Thr Asp Ile Pro Asp Asp Pro Asp Tyr Ala
 100 105 110
 Leu Gly Gln Gly Ala Gly Phe Tyr Val Asn Ala Thr Gln Glu Pro Trp
 115 120 125
 Ala Thr His Tyr Lys Met Tyr Asp Tyr Val Val Asn Glu Leu Pro Ser
 130 135 140

Leu	Ile	Glu	Glu	Trp	Phe	Pro	Ala	Ser	Asp	Lys	Arg	Ser	Ile	Ser	Gly
145					150					155					160
His	Ser	Met	Gly	Gly	His	Gly	Ala	Leu	Met	Ile	Ala	Leu	Arg	Asn	Pro
				165					170					175	
Gly	Arg	Tyr	Gln	Ser	Val	Ser	Ala	Phe	Ser	Pro	Ile	Val	Ala	Pro	Ser
			180					185					190		
Gln	Val	Pro	Trp	Gly	Arg	Lys	Cys	Ile	Val	Cys	Leu	Ser	Gly		
		195					200					205			

<210> 8054

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 8054

Thr	Pro	Asp	Ala	Asp	Asp	Ala	Ala	Gly	Thr	Ala	Cys	Ala	Gly	Cys	Asp
1				5					10					15	
Gly	Thr	Thr	Cys	Thr	Arg	Thr	Gly	Ser	Gly	Asp	Gly	Val	Asn	Ala	Ala
			20					25					30		
Ala	Ala	Gly	Cys	Ala	Ala	Thr	Ala	Ser	Leu	Gly	Trp	Arg	Ala	Val	
		35					40				45				
Val	Ala	Ser	Tyr	Arg	Ser	Gln	Gly	Arg	Trp	Val	Ile	Trp	Leu	Ser	Phe
	50					55				60					
Leu	Val	Ala	Leu	Leu	Leu	Gln	Ile	Met	Pro	Trp	Pro	Asp	Asp	Ile	Leu
65				70					75						80
Val	Phe	Arg	Pro	Asn	Trp	Val	Leu	Leu	Ile	Leu	Leu	Tyr	Trp	Ile	Leu
				85					90					95	
Ala	Leu	Pro	His	Arg	Val	Asn	Val	Gly	Thr	Gly	Phe	Val	Met	Gly	Ala
			100					105					110		
Ile	Leu	Asp	Leu	Ile	Ser	Gly	Ser	Thr	Leu	Gly	Val	Arg	Ala	Leu	Ser
		115					120					125			
Met	Ser	Ile	Ile	Ala	Tyr	Leu	Val	Ala	Leu	Lys	Phe	Gln	Leu	Phe	Arg
	130					135					140				
Asn	Leu	Ala	Leu	Trp	Gln	Gln	Ala	Leu	Val	Val	Met	Leu	Leu	Ser	Leu
145					150					155					160
Ala	Ala	Asp	Ile	Val	Val	Phe	Trp	Ala	Glu	Phe	Leu	Val	Ile	Asn	Val
				165					170					175	
Ser	Phe	Arg	Pro	Glu	Val	Phe	Trp	Ser	Ser	Val	Val	Asn	Gly	Val	Leu
			180					185					190		
Trp	Pro	Trp	Leu	Phe	Leu	Leu	Met	Arg	Lys	Ile	Arg	Gln	Gln	Phe	Ala
		195					200					205			
Val	Gln														
	210														

<210> 8055

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 8055

Lys	Val	Ser	Met	Thr	Ser	Leu	Tyr	Leu	Ala	Ser	Gly	Ser	Pro	Arg	Arg
1				5					10					15	
Gln	Glu	Leu	Leu	Ala	Gln	Leu	Gly	Val	Ser	Phe	Glu	Arg	Ile	Val	Thr
			20					25					30		
Gly	Ile	Glu	Glu	Lys	Arg	Ala	Glu	Gly	Glu	Ser	Ala	Gln	Gln	Tyr	Val
		35					40					45			
Ser	Arg	Leu	Ala	Arg	Glu	Lys	Ala	Gln	Ala	Gly	Val	Ala	Cys	Val	Pro
	50					55					60				
Arg	Asp	Leu	Pro	Val	Leu	Gly	Ala	Asp	Thr	Ile	Val	Ile	Leu	Asn	Gly
65					70				75						80
Glu	Val	Leu	Glu	Lys	Pro	Arg	Asp	Ala	Asp	His	Ala	Ala	Arg	Met	Leu

			85					90				95			
Arg	Asn	Met	Ser	Gly	Gln	Thr	His	Gln	Val	Met	Thr	Ala	Val	Ala	Leu
			100					105					110		
Ala	Asp	Ser	Gln	Tyr	Val	Leu	Asp	Cys	Leu	Val	Val	Thr	Glu	Val	Thr
		115					120					125			
Phe	Arg	Val	Leu	Thr	Asp	Glu	Glu	Ile	Ala	Gly	Tyr	Ile	Ala	Ser	Gly
		130				135					140				
Glu	Pro	Met	Asp	Lys	Ala	Gly	Ala	Tyr	Gly	Ile	Gln	Gly	Leu	Gly	Gly
145				150					155						160
Cys	Phe	Val	Arg	Lys	Ile	Asn	Gly	Ser	Tyr	His	Ala	Val	Val	Gly	Leu
			165					170						175	
Pro	Leu	Val	Glu	Thr	Tyr	Glu	Leu	Leu	Ser	Asn	Phe	Asn	Ser	Leu	Arg
			180					185					190		
Glu	Gly	Arg	Asp	Asn	Tyr	Asp	Gly								
		195					200								

<210> 8056

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 8056

Met	Ser	Leu	Asn	Leu	Val	Ser	Glu	His	Leu	Leu	Ala	Ala	Asn	Gly	Leu
1			5					10					15		
Ser	His	Gln	Asp	Leu	Phe	Ser	Ile	Leu	Gly	Gln	Leu	Thr	Glu	Arg	Arg
		20					25					30			
Leu	Asp	Tyr	Gly	Asp	Leu	Tyr	Phe	Gln	Ser	Ser	Tyr	His	Glu	Ser	Trp
		35				40					45				
Val	Leu	Glu	Asp	Ser	Ile	Ile	Lys	Asp	Gly	Ser	Tyr	Asn	Ile	Asp	Gln
	50				55					60					
Gly	Val	Gly	Val	Arg	Ala	Val	Ser	Gly	Glu	Lys	Thr	Gly	Phe	Ala	Tyr
65				70				75							80
Ala	Asp	Gln	Ile	Ser	Leu	Ala	Ala	Leu	Glu	Gln	Ser	Ala	Gln	Ala	Ala
			85					90					95		
Arg	Thr	Ile	Val	Arg	Asp	Thr	Gly	Asp	Gly	Arg	Val	Lys	Thr	Leu	Gly
		100					105					110			
Glu	Val	Gln	His	Ala	Ala	Leu	Tyr	Thr	Ser	Ile	Asp	Pro	Leu	Gln	Ser
		115				120					125				
Met	Ser	Arg	Glu	Glu	Lys	Leu	Asp	Ile	Leu	Arg	Arg	Val	Asp	Lys	Val
	130				135					140					
Ala	Arg	Ala	Ala	Asp	Lys	Arg	Val	Gln	Glu	Val	Ser	Ala	Ser	Leu	Thr
145				150					155						160
Gly	Val	Tyr	Glu	Leu	Ile	Leu	Val	Ala	Ala	Thr	Asp	Gly	Thr	Leu	Ala
			165					170						175	
Ala	Asp	Val	Arg	Pro	Leu	Val	Arg	Leu	Ser	Ile	Ser	Val	Gln	Val	Glu
		180					185						190		
Asp	Asp	Gly	Lys	Arg	Glu	Arg	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Arg	Phe
		195				200						205			
Gly	Tyr	Asp	Trp	Phe	Leu	Gly	Asp	Val	Asp	Gly	Glu	Ala	Arg	Ala	Asp
	210				215					220					
Ala	Trp	Ala	Lys	Glu	Ala	Val	Arg	Met	Ala	Leu	Val	Asn	Leu	Ser	Ala
225				230					235						240
Val	Ala	Ala	Pro	Ala	Gly	Thr	Leu	Pro	Val	Val	Leu	Gly	Ala	Gly	Trp
			245					250						255	
Pro	Gly	Val	Leu	Leu	His	Glu	Ala	Val	Gly	His	Gly	Leu	Glu	Gly	Asp
		260				265						270			
Phe	Asn	Arg	Arg	Gly	Thr	Ser	Val	Phe	Ser	Gly	Gln	Met	Gly	Gln	Leu
		275				280						285			
Val	Ser	Ser	Glu	Leu	Cys	Thr	Val	Val	Asp	Asp	Gly	Thr	Met	Leu	Asp
	290				295						300				
Arg	Arg	Gly	Ser	Ile	Ser	Ile	Asp	Asp	Glu	Gly	Thr	Pro	Gly	Gln	Tyr

305					310					315				320	
Asn	Val	Leu	Ile	Glu	Asn	Gly	Val	Leu	Lys	Gly	Tyr	Met	Gln	Asp	Lys
				325					330					335	
Leu	Asn	Ala	Arg	Leu	Met	Gly	Val	Ala	Pro	Thr	Gly	Asn	Gly	Arg	Arg
			340					345					350		
Glu	Ser	Tyr	Ala	His	Leu	Pro	Met	Pro	Arg	Met	Thr	Asn	Thr	Tyr	Met
		355					360					365			
Leu	Pro	Gly	Lys	Ser	Thr	Pro	Gln	Glu	Ile	Ile	Glu	Ser	Val	Asp	Tyr
	370					375					380				
Gly	Ile	Phe	Ala	Pro	Asn	Phe	Gly	Gly	Gly	Gln	Val	Asp	Ile	Thr	Ser
385					390					395					400
Gly	Lys	Phe	Val	Phe	Ser	Thr	Ser	Glu	Ala	Tyr	Leu	Ile	Glu	Lys	Gly
				405					410					415	
Lys	Val	Thr	Lys	Ala	Val	Lys	Gly	Ala	Thr	Leu	Ile	Gly	Ser	Gly	Ile
			420				425						430		
Glu	Ala	Met	Gln	Gln	Ile	Ser	Met	Val	Gly	Asn	Asp	Leu	Lys	Leu	Asp
		435					440					445			
Asn	Gly	Val	Gly	Val	Cys	Gly	Lys	Glu	Gly	Gln	Ser	Leu	Pro	Val	Gly
	450					455					460				
Val	Gly	Gln	Pro	Thr	Leu	Lys	Val	Asp	Asn	Leu	Thr	Val	Gly	Gly	Thr
465					470					475					480
Ala															

<210> 8057

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 8057

Pro	Ala	Leu	Ser	Leu	Ile	Lys	Val	Asn	Met	Ser	Leu	Phe	Pro	Val	Ile
1				5					10					15	
Val	Val	Phe	Gly	Leu	Ser	Phe	Pro	Pro	Ile	Phe	Phe	Glu	Leu	Leu	Leu
			20					25					30		
Ser	Leu	Ala	Ile	Phe	Trp	Leu	Val	Arg	Lys	Val	Leu	Val	Pro	Thr	Gly
		35					40					45			
Ile	Tyr	Asp	Phe	Val	Trp	His	Pro	Ala	Leu	Phe	Asn	Thr	Ala	Leu	Tyr
	50					55					60				
Cys	Cys	Leu	Phe	Tyr	Leu	Ile	Ser	Arg	Met	Phe	Val				
65					70					75					

<210> 8058

<211> 677

<212> PRT

<213> Enterobacter cloacae

<400> 8058

Cys	Gln	Pro	Gly	Phe	Asp	Leu	Pro	Ser	Asn	Arg	Pro	Ser	Pro	Ala	Arg
1				5					10					15	
Val	Trp	Leu	Ile	Ala	Met	Gly	Ile	Phe	Ser	Ile	Ala	Ser	Gln	His	Ile
			20					25					30		
Arg	Phe	Ala	Val	Lys	Leu	Ala	Cys	Ala	Ile	Val	Leu	Ala	Leu	Phe	Val
		35					40					45			
Gly	Phe	His	Phe	Gln	Leu	Glu	Thr	Pro	Arg	Trp	Ala	Val	Leu	Thr	Ala
	50					55					60				
Ala	Ile	Val	Ala	Ala	Gly	Pro	Ala	Phe	Ala	Ala	Gly	Gly	Glu	Pro	Tyr
65					70					75					80
Ser	Gly	Ala	Ile	Arg	Tyr	Arg	Gly	Met	Leu	Arg	Ile	Ile	Gly	Thr	Phe
			85					90						95	
Ile	Gly	Cys	Ile	Ala	Ala	Leu	Thr	Ile	Ile	Ile	Leu	Met	Ile	Arg	Thr
			100					105						110	

Pro	Leu	Leu	Met	Leu	Ile	Val	Cys	Cys	Ile	Trp	Ala	Gly	Phe	Cys	Thr
		115					120					125			
Trp	Val	Ser	Ser	Leu	Val	Lys	Val	Glu	Asn	Ser	Tyr	Ala	Trp	Gly	Leu
	130					135					140				
Ala	Gly	Tyr	Thr	Ala	Leu	Ile	Ile	Ile	Ile	Thr	Ile	Gln	Ser	Glu	Pro
145					150					155					160
Leu	Leu	Ala	Pro	Gln	Phe	Ala	Val	Glu	Arg	Cys	Ser	Glu	Ile	Val	Ile
				165					170					175	
Gly	Ile	Val	Cys	Ala	Ile	Val	Ala	Asp	Leu	Leu	Phe	Ser	Pro	Arg	Ser
			180					185					190		
Ile	Lys	Gln	Glu	Val	Asp	Arg	Glu	Leu	Asp	Ala	Leu	Ile	Val	Ala	Gln
	195						200					205			
Tyr	Gln	Leu	Met	Gln	Leu	Cys	Ile	Lys	His	Gly	Asp	Ser	Glu	Glu	Val
	210					215					220				
Asp	Lys	Ala	Trp	Ser	Ala	Leu	Val	Arg	Arg	Thr	Gln	Ala	Leu	Glu	Gly
225					230					235					240
Met	Arg	Ser	Asn	Leu	Asn	Met	Glu	Ser	Ser	Arg	Trp	Glu	Arg	Ala	Asn
			245						250					255	
Arg	Arg	Leu	Lys	Ala	Ile	Asn	Thr	Val	Ser	Leu	Thr	Leu	Ile	Thr	Gln
			260					265					270		
Ala	Cys	Glu	Thr	Tyr	Leu	Ile	Gln	Asn	Thr	Arg	Pro	Glu	Val	Val	Thr
		275					280					285			
Asp	Thr	Phe	Arg	Glu	Leu	Phe	Asp	Glu	Pro	Val	Glu	Thr	Val	Gln	Asp
	290					295					300				
Val	His	Arg	Gln	Leu	Lys	Arg	Met	Arg	Arg	Val	Ile	Ala	Trp	Thr	Gly
305					310					315					320
Glu	Arg	Asp	Thr	Pro	Val	Thr	Ile	Tyr	Thr	Trp	Val	Gly	Ala	Ala	Thr
				325					330					335	
Arg	Tyr	Leu	Leu	Leu	Lys	Arg	Gly	Val	Ile	Ser	Asn	Thr	Lys	Ile	Ser
			340					345					350		
Ala	Ala	Glu	Glu	Glu	Val	Leu	Gln	Gly	Glu	Val	Val	Ile	Lys	Pro	Glu
		355					360					365			
Ser	Ala	Glu	Arg	His	His	Ala	Met	Val	Asn	Phe	Trp	Arg	Thr	Thr	Leu
	370					375					380				
Ala	Cys	Ile	Leu	Gly	Thr	Leu	Phe	Trp	Leu	Trp	Thr	Gly	Trp	Thr	Ser
385					390					395					400
Gly	Ser	Gly	Ala	Met	Val	Met	Ile	Ala	Val	Val	Thr	Ala	Leu	Ala	Met
				405					410					415	
Arg	Leu	Pro	Asn	Pro	Arg	Met	Val	Ala	Ile	Asp	Phe	Leu	Tyr	Gly	Thr
			420					425					430		
Ile	Ala	Ala	Leu	Pro	Ile	Gly	Ala	Leu	Tyr	Phe	Leu	Val	Ile	Ile	Pro
	435						440					445			
Ser	Thr	Gln	Gln	Ser	Met	Leu	Leu	Leu	Cys	Ile	Ser	Leu	Ala	Val	Met
	450					455					460				
Ala	Phe	Phe	Ile	Gly	Ile	Glu	Val	Gln	Lys	Arg	Arg	Leu	Gly	Ser	Leu
465					470					475					480
Gly	Ala	Leu	Ala	Ser	Thr	Ile	Asn	Ile	Ile	Val	Leu	Asp	Asn	Pro	Met
				485					490					495	
Thr	Phe	His	Phe	Ser	Gln	Phe	Leu	Asp	Ser	Ala	Leu	Gly	Gln	Leu	Val
			500					505					510		
Gly	Cys	Phe	Leu	Ala	Met	Met	Val	Ile	Leu	Leu	Val	Arg	Asp	Asn	Ser
		515					520					525			
Gln	Ala	Arg	Thr	Gly	Arg	Val	Leu	Leu	Asn	Gln	Phe	Val	Ser	Ala	Ala
	530					535					540				
Val	Ser	Ser	Leu	Thr	Thr	Asn	Thr	Ala	Arg	Arg	Lys	Glu	Asn	His	Leu
545					550					555					560
Pro	Ala	Leu	Tyr	Gln	Gln	Leu	Phe	Leu	Leu	Asn	Lys	Phe	Pro	Gly	
				565					570					575	
Asp	Val	Ala	Arg	Phe	Arg	Leu	Ala	Leu	Thr	Met	Ile	Ile	Ala	His	Gln
			580					585					590		
Arg	Leu	Arg	Asn	Ala	Pro	Val	Pro	Ile	Asn	Asp	Asp	Leu	Ser	Ala	Phe

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<210> 8059
<211> 321
<212> PRT
<213> Enterobacter cloacae
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Val 1	Asn	His	Asn	Lys 5	Glu	Phe	Arg	Met	Lys 10	Val	Ala	Val	Leu	Gly 15	Ala
Ala 20	Gly	Gly	Ile	Gly	Gln	Ala	Leu	Ala 25	Leu	Leu	Leu	Lys	Thr 30	Gln	Leu
Pro 35	Ser	Gly	Ser	Glu	Leu	Ser	Leu 40	Tyr	Asp	Ile	Ala	Pro 45	Val	Thr	Pro
Gly 50	Val	Ala	Val	Asp	Leu	Ser 55	His	Ile	Pro	Thr	Ala 60	Val	Lys	Ile	Lys
Gly 65	Phe	Ser	Gly	Glu	Asp 70	Ala	Arg	Pro	Ala	Leu	Gln	Gly	Ala	Asp	Val 80
Val 85	Leu	Ile	Ser	Ala	Gly	Val	Ala	Arg	Lys 90	Pro	Gly	Met	Asp	Arg 95	Ser
Asp	Leu	Phe	Asn 100	Val	Asn	Ala	Gly 105	Ile	Val	Lys	Asn	Leu 110	Val	Gln	Gln
Ile	Ala	Glu 115	Thr	Cys	Pro	Lys	Ala 120	Cys	Ile	Gly	Ile	Ile 125	Thr	Asn	Pro
Val 130	Asn	Thr	Thr	Val	Ala	Ile 135	Ala	Ala	Glu	Val	Leu	Lys	Lys	Ala	Gly
Val 145	Tyr	Asp	Lys	Asn 150	Lys	Leu	Phe	Gly	Val	Thr 155	Thr	Leu	Asp	Ile 160	Ile
Arg	Ser	Asn	Thr	Phe 165	Val	Ala	Glu	Leu	Lys 170	Gly	Lys	Gln	Pro	Thr 175	Glu
Val	Glu	Val	Pro 180	Val	Ile	Gly	Gly 185	His	Ser	Gly	Val	Thr 190	Ile	Leu	Pro
Leu	Leu	Ser 195	Gln	Ile	Pro	Gly	Val 200	Ser	Phe	Thr	Glu	Gln	Glu	Val	Ala
Asp	Leu 210	Thr	Lys	Arg	Ile	Gln 215	Asn	Ala	Gly	Thr	Glu 220	Val	Val	Glu	Ala
Lys 225	Ala	Gly	Gly	Gly 230	Ser	Ala	Thr	Leu	Ser	Met 235	Gly	Gln	Ala	Ala	Ala
Arg	Phe	Gly	Leu	Ser 245	Leu	Val	Arg	Ala	Leu 250	Gln	Gly	Glu	Lys	Gly 255	Val
Val	Glu	Cys	Ala 260	Tyr	Val	Glu	Gly 265	Asp	Gly	Glu	His	Ala 270	Arg	Phe	Phe
Ser	Gln 275	Pro	Leu	Leu	Leu	Gly	Lys 280	Asn	Gly	Val	Glu	Glu 285	Arg	Lys	Ser
Ile	Gly 290	Thr	Leu	Ser	Ala	Phe 295	Glu	Gln	Asn	Ala	Met 300	Glu	Gly	Met	Leu
Asp 305	Thr	Leu	Lys	Lys 310	Asp	Ile	Thr	Leu	Gly 315	Glu	Phe	Val	Asn	Lys 320	

<210> 8060
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 8060

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Pro Met Lys Pro Ile Phe Ser Arg Gly Pro Ser Leu Gln Phe Arg Leu
1      5      10      15
Ile Leu Ala Val Leu Val Ala Leu Gly Val Ile Ile Ala Asp Ser Arg
20      25      30
Leu Gly Thr Phe Ser Gln Ile Arg Thr Tyr Met Asp Thr Ala Val Ser
35      40      45
Pro Phe Tyr Phe Ile Ser Asn Gly Pro Arg Glu Leu Leu Asp Ser Val
50      55      60
Ser Gln Thr Leu Ser Ser Arg Asp Gln Leu Glu Leu Glu Asn Arg Ala
65      70      75      80
Leu Arg Gln Glu Leu Leu Leu Lys Asn Ser Glu Leu Leu Met Leu Gly
85      90      95
Gln Tyr Lys Gln Glu Asn Ala Arg Leu Arg Glu Leu Leu Gly Ser Pro
100     105     110
Leu Arg Gln Asp Glu Gln Lys Met Val Thr Gln Val Ile Ser Thr Val
115     120     125
Asn Asp Pro Tyr Ser Asp Gln Val Val Ile Asp Lys Gly Ser Val Asn
130     135     140
Gly Val Tyr Glu Gly Gln Pro Val Ile Ser Asp Lys Gly Val Val Gly
145     150     155     160
Gln Val Val Ala Val Ala Lys Leu Thr Ser Arg Val Leu Leu Ile Cys
165     170     175
Asp Ala Thr His Ala Leu Pro Ile Gln Val Leu Arg Asn Asp Ile Arg
180     185     190
Val Ile Ala Ala Gly Asn Gly Cys Thr Asp Asp Leu Gln Leu Glu His
195     200     205
Leu Pro Ala Asn Thr Asp Ile Arg Val Gly Asp Val Leu Val Thr Ser
210     215     220
Gly Leu Gly Gly Arg Phe Pro Glu Gly Tyr Pro Val Ala Val Val Ser
225     230     235     240
Ser Val Lys Leu Asp Thr Gln Arg Ala Tyr Thr Val Ile Gln Ala Arg
245     250     255
Pro Thr Ala Gly Leu Gln Arg Leu Arg Tyr Leu Leu Leu Leu Trp Gly
260     265     270
Ala Asp Arg Asn Gly Ala Asn Pro Met Thr Pro Glu Asp Val His Arg
275     280     285
Val Ala Asn Glu Arg Leu Met Gln Met Met Pro Gln Val Leu Pro Ala
290     295     300
Pro Asp Ala Met Gly Pro Pro Ala Pro Val Pro Ala Pro Ala Thr Gly
305     310     315     320
Leu Thr Gln Pro Leu Pro Asp Ala Pro Pro Pro Gln Val Ser Gly
325     330     335
Gly Gly Gln
340

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<210> 8061
 <211> 502
 <212> PRT
 <213> Enterobacter cloacae

<400> 8061

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Ala Ile Leu Thr His Cys Val Arg Glu Gly Ile Ile Met Thr Ala Glu
1      5      10      15
Leu Leu Val Asn Val Thr Pro Ser Glu Thr Arg Val Ala Tyr Ile Asp
20      25      30

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Gly	Gly	Ile	Leu	Gln	Glu	Ile	His	Ile	Glu	Arg	Glu	Ala	Arg	Arg	Gly
		35					40					45			
Ile	Val	Gly	Asn	Ile	Tyr	Lys	Gly	Arg	Val	Ser	Arg	Val	Leu	Pro	Gly
	50					55				60					
Met	Gln	Ala	Ala	Phe	Val	Asp	Ile	Gly	Leu	Asp	Lys	Ala	Ala	Phe	Leu
65				70					75					80	
His	Ala	Ser	Asp	Ile	Met	Pro	His	Thr	Glu	Cys	Val	Ala	Gly	Glu	Glu
				85					90					95	
Gln	Lys	Gln	Phe	Ala	Val	Arg	Asp	Ile	Ser	Glu	Leu	Val	Arg	Gln	Gly
			100					105					110		
Gln	Asp	Leu	Met	Val	Gln	Val	Val	Lys	Asp	Pro	Leu	Gly	Thr	Lys	Gly
	115						120					125			
Ala	Arg	Leu	Thr	Thr	Asp	Ile	Thr	Leu	Pro	Ser	Arg	Tyr	Leu	Val	Phe
	130					135				140					
Met	Pro	Gly	Ala	Ser	His	Val	Gly	Val	Ser	Gln	Arg	Ile	Glu	Ser	Glu
145				150					155					160	
Ser	Glu	Arg	Glu	Arg	Leu	Lys	Lys	Val	Val	Ser	Ala	Tyr	Cys	Asp	Glu
				165				170						175	
Gln	Gly	Gly	Phe	Ile	Ile	Arg	Thr	Ala	Ala	Glu	Gly	Ile	Ser	Glu	Glu
			180				185						190		
Asp	Leu	Ala	Ser	Asp	Ala	Ala	Tyr	Leu	Lys	Arg	Val	Trp	Thr	Lys	Val
	195					200						205			
Met	Glu	Arg	Lys	Lys	Arg	Asn	Gln	Thr	Arg	Tyr	Arg	Leu	Tyr	Gly	Glu
	210					215				220					
Leu	Ala	Leu	Ala	Gln	Arg	Val	Leu	Arg	Asp	Phe	Ala	Asp	Ala	Gln	Leu
225				230					235					240	
Asp	Arg	Ile	Arg	Val	Asp	Ser	Arg	Leu	Thr	Tyr	Glu	Ala	Leu	Leu	Glu
				245				250						255	
Phe	Thr	Ala	Glu	Tyr	Ile	Pro	Glu	Met	Pro	Gly	Leu	Leu	Glu	His	Tyr
			260				265						270		
Thr	Gly	Arg	Gln	Pro	Ile	Phe	Asp	Leu	Tyr	Asp	Val	Glu	Asn	Glu	Ile
	275						280					285			
Gln	Arg	Ala	Leu	Glu	Arg	Lys	Val	Glu	Leu	Lys	Ser	Gly	Gly	Tyr	Leu
	290					295				300					
Ile	Ile	Asp	Gln	Thr	Glu	Ala	Met	Thr	Thr	Val	Asp	Ile	Asn	Thr	Gly
305				310					315					320	
Ala	Phe	Val	Gly	His	Arg	Asn	Leu	Asp	Asp	Thr	Ile	Phe	Asn	Thr	Asn
				325				330						335	
Ile	Glu	Ala	Thr	Gln	Ala	Ile	Ala	Arg	Gln	Leu	Arg	Leu	Arg	Asn	Leu
			340				345						350		
Gly	Gly	Ile	Ile	Ile	Ile	Asp	Phe	Ile	Asp	Met	Asn	Asn	Glu	Asp	His
	355					360				365					
Arg	Arg	Arg	Val	Leu	His	Ser	Leu	Glu	Gln	Ala	Leu	Ser	Lys	Asp	Arg
	370					375				380					
Val	Lys	Thr	Ser	Ile											

<210> 8062
 <211> 1283
 <212> PRT
 <213> Enterobacter cloacae

<400> 8062

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Thr Gln Phe Ala Ala Arg Phe Lys Ala Asp Lys Glu Arg Arg Val Arg
1      5      10      15
Arg Leu Pro Gly Ile Leu Leu Leu Thr Gly Ala Thr Leu Val Val Ile
20      25      30
Val Ala Leu Leu Val Ser Gly Leu Arg Leu Ala Leu Pro His Leu Asp
35      40      45
Ser Trp Arg Pro Gln Ile Leu Ala Lys Ile Glu Ser Ala Thr Gly Leu
50      55      60
Pro Val Asp Val Ser His Ile Glu Ala Ser Trp Gln Asn Phe Gly Pro
65      70      75      80
Thr Leu Asp Ala Arg Asp Ile His Ala Ser Leu Lys Asp Gly Gly His
85      90      95
Leu Lys Ile Lys Arg Val Thr Leu Ala Leu Asp Val Trp Gln Ser Leu
100     105     110
Leu His Leu Arg Trp Gln Phe Arg Asp Leu Thr Phe Trp Gln Leu Gln
115     120     125
Leu Met Thr Asn Thr Pro Leu Gln Ser Gly Asp Ser Asp Arg Gly Leu
130     135     140
Glu Thr Ser Arg Ile Ser Asp Leu Phe Leu Arg Gln Phe Asp His Phe
145     150     155     160
Asp Leu Arg Asp Ser Glu Val Ser Phe Ile Thr Leu Ser Gly Gln Arg
165     170     175
Ala Glu Leu Ala Ile Pro Gln Leu Thr Trp Leu Asn Gly Lys Asp Arg
180     185     190
His Arg Ala Glu Gly Gln Val Asn Leu Ser Ser Leu Asn Gly Gln His
195     200     205
Gly Val Met Gln Val Arg Met Asp Leu Arg Asp Asp Asn Gly Leu Leu
210     215     220
Asn Asn Gly Arg Val Trp Leu Gln Ala Asp Asp Val Asp Val Lys Pro
225     230     235     240
Trp Leu Gly Glu Leu Leu Gln Gln Asn Met Gln Leu Glu Thr Ala Arg
245     250     255
Phe Ser Leu Glu Gly Trp Met Thr Leu Thr Asn Gly Ala Phe Ala Ser
260     265     270
Gly Asp Ile Trp Leu Lys Gln Gly Gly Ala Ser Trp Lys Gly Glu Asn
275     280     285
His Gln His Gln Leu Ser Val Asp Asn Leu Thr Ala His Val Thr Gln
290     295     300
Asp Lys Gly Gly Trp Gln Phe Ala Ile Pro Asp Thr Arg Ile Ser Met
305     310     315     320
Asp Asn Lys Pro Trp Pro Arg Gly Ala Leu Thr Leu Ala Trp Met Pro
325     330     335
Glu Gln Asp Val Gly Gly Ile Asn Gly Lys Arg Ser Asp Glu Leu Arg
340     345     350
Ile Arg Ala Ser Asn Leu Asp Leu Thr Ala Ile Glu Gly Leu Arg Ser
355     360     365
Met Ala Ala Lys Leu Ser Pro Glu Leu Gly Glu Ile Trp Leu Ala Thr
370     375     380
Gln Pro Ser Gly Gln Ile Asn Arg Leu Ala Leu Asp Ile Pro Leu Gln
385     390     395     400
Ala Thr Glu Lys Thr Arg Phe Gln Ala Ala Trp Lys Asn Leu Ala Trp
405     410     415
Lys Gln Trp Lys Leu Leu Pro Gly Ala Glu His Phe Ser Gly Lys Leu
420     425     430
Glu Gly Ser Val Glu Asn Gly Arg Leu Thr Ala Glu Met Gln Asp Ala

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		435					440					445				
Lys	Met	Pro	Tyr	Glu	Thr	Val	Phe	Arg	Ala	Pro	Leu	Glu	Ile	Glu	Lys	
	450					455					460					
Gly	Asn	Ala	Thr	Leu	Asn	Trp	Leu	Lys	Asn	Asp	Lys	Gly	Phe	Gln	Leu	
465					470					475					480	
Asp	Gly	Arg	Asp	Ile	Asp	Val	Lys	Ala	Lys	Ala	Val	His	Ala	Arg	Gly	
				485					490					495		
Asn	Phe	Arg	Tyr	Leu	Gln	Pro	Glu	Gly	Asp	Glu	Pro	Trp	Leu	Gly	Ile	
			500					505					510			
Leu	Ala	Gly	Ile	Ser	Thr	Asp	Asp	Gly	Ser	Gln	Ala	Trp	Arg	Tyr	Phe	
		515					520					525				
Pro	Glu	Asn	Leu	Met	Gly	Lys	Ala	Leu	Val	Asp	Tyr	Leu	Ser	Gly	Ala	
	530					535					540					
Ile	Gln	Gly	Gly	Gln	Ala	Asp	Asn	Ala	Thr	Leu	Val	Tyr	Gly	Gly	Asn	
545					550					555					560	
Pro	His	Leu	Phe	Pro	Tyr	Lys	His	Asn	Glu	Gly	Gln	Phe	Gln	Val	Leu	
				565					570					575		
Val	Pro	Leu	Arg	Asn	Ala	Thr	Tyr	Ala	Phe	Gln	Pro	Asp	Trp	Pro	Ala	
			580					585					590			
Leu	Lys	Asn	Leu	Asp	Ile	Glu	Leu	Asn	Phe	Leu	Asn	Asp	Gly	Leu	Trp	
		595					600					605				
Met	Lys	Thr	Asp	Ser	Val	Ala	Leu	Gly	Gly	Val	Thr	Ala	Ser	Asn	Leu	
	610					615					620					
Thr	Ala	Asn	Ile	Pro	Asp	Tyr	Ser	Lys	Glu	Lys	Leu	Leu	Ile	Asp	Ala	
625					630					635					640	
Asp	Ile	Lys	Gly	Pro	Gly	Lys	Ala	Val	Gly	Pro	Tyr	Phe	Glu	Asp	Thr	
				645					650					655		
Pro	Leu	Asn	Asp	Ser	Leu	Ala	Ala	Thr	Leu	Gln	Gln	Leu	Gln	Leu	Asp	
			660					665						670		
Gly	Asp	Val	Asn	Ala	Arg	Leu	His	Leu	Asp	Ile	Pro	Leu	Asp	Gly	Glu	
		675					680					685				
Leu	Thr	Thr	Ala	Lys	Gly	Asp	Val	Arg	Leu	Asn	Asn	Asn	Ser	Leu	Tyr	
	690					695					700					
Ile	Lys	Pro	Leu	Asp	Ser	Thr	Leu	Lys	Asn	Leu	Ser	Gly	Gln	Phe	Ser	
705					710					715					720	
Phe	Val	Asn	Gly	Thr	Leu	Lys	Ser	Glu	Pro	Leu	Lys	Ala	Thr	Trp	Phe	
				725					730					735		
Asn	Gln	Pro	Val	Asn	Ile	Asp	Phe	Ser	Thr	Thr	Glu	Gly	Asp	Lys	Ala	
			740					745					750			
Tyr	Gln	Val	Ala	Val	Asn	Met	Asp	Ala	Asn	Trp	Gln	Pro	Ser	Arg	Met	
		755					760					765				
Asp	Val	Leu	Pro	Lys	Pro	Ile	Glu	Asn	Ala	Val	Asp	Gly	Ala	Val	Ser	
	770					775					780					
Trp	Asn	Gly	Lys	Val	Ala	Ile	Asp	Leu	Pro	Tyr	His	Ala	Gly	Ala	Arg	
785																

Leu Gly Gly Gln Gln Trp Asn Asn Leu Ser Ile Val Ser Arg Pro Thr
 930 935 940
 Val Asn Gly Ser Lys Val Glu Ala Gln Gly Arg Glu Ile Asn Gly Ser
 945 950 955 960
 Leu Ile Met Arg Asp His Ala Pro Trp Gln Ala Ala Ile Arg Tyr Leu
 965 970 975
 Tyr Tyr Asn Pro Thr Phe Thr Ala Ser Lys Ala Glu Ser Thr Ser Thr
 980 985 990
 Ser Pro Val Ser Gly Ser Gly Thr Ser Arg Val Asp Phe Ser Gly Trp
 995 1000 1005
 Pro Asp Leu Gln Leu Arg Cys Ala Glu Cys Trp Leu Trp Gly Gln Lys
 1010 1015 1020
 Tyr Gly Arg Ile Asp Gly Asp Phe Ala Ile Gln Gly Asn Thr Leu Ser
 1025 1030 1035 1040
 Leu Ser Gly Gly Leu Val Asp Thr Gly Phe Gly Arg Met Thr Ala Ala
 1045 1050 1055
 Gly Glu Trp Val Asn Lys Pro Gly Glu Gln Arg Thr Ser Leu Lys Gly
 1060 1065 1070
 Asp Ile Lys Gly Asn Lys Leu Asp Ala Ala Ala Asn Phe Phe Gly Ile
 1075 1080 1085
 Ser Thr Pro Leu Arg Gly Ser Ser Phe Asp Val Asn Tyr Asp Leu His
 1090 1095 1100
 Trp Arg Ala Ala Pro Trp Thr Pro Asp Glu Ala Ser Leu Asn Gly Ile
 1105 1110 1115 1120
 Leu Lys Thr Asn Phe Gly Lys Gly Glu Ile Ala Asp Val Ser Thr Gly
 1125 1130 1135
 Arg Ala Gly Gln Ile Leu Arg Leu Leu Ser Phe Asp Ala Leu Leu Arg
 1140 1145 1150
 Lys Leu Arg Phe Asp Phe Ser Asp Thr Phe Ser Glu Gly Phe Tyr Tyr
 1155 1160 1165
 Asp Ser Ile Arg Ser Thr Ala Trp Ile Lys Asp Gly Val Leu His Thr
 1170 1175 1180
 Asp Asp Thr Leu Val Asp Gly Leu Glu Ala Asp Ile Ala Met Lys Gly
 1185 1190 1195 1200
 Ser Val Asn Leu Val Arg Arg Glu Leu Asp Met Glu Ala Val Val Ala
 1205 1210 1215
 Pro Glu Ile Ser Ala Ser Val Gly Val Ala Ala Ala Phe Val Val Asn
 1220 1225 1230
 Pro Ile Val Gly Ala Ala Val Phe Ala Ala Ser Lys Val Leu Gly Pro
 1235 1240 1245
 Leu Trp Ser Lys Val Ser Ile Leu Arg Tyr Arg Ile Thr Gly Pro Val
 1250 1255 1260
 Asp Lys Pro Gln Ile Asn Glu Val Leu Arg Gln Pro Arg Lys Glu Ala
 1265 1270 1275 1280
 Pro Gln

<210> 8063

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 8063

Tyr Arg Ala Cys Leu Ser Glu Val Asp Val Lys Thr Leu Thr Arg Lys
 1 5 10 15
 Ile Ser Arg Thr Ala Ile Thr Met Ala Leu Val Ile Leu Ala Phe Ile
 20 25 30
 Ala Ile Phe Arg Ala Trp Val Tyr Thr Glu Ser Pro Trp Thr Arg
 35 40 45
 Asp Ala Arg Phe Ser Ala Glu Val Val Ala Ile Ala Pro Asp Val Ala
 50 55 60

Gly	Leu	Ile	Thr	Ala	Val	Asn	Val	His	Asp	Asn	Gln	Leu	Val	Lys	Lys
65					70					75					80
Asp	Gln	Val	Leu	Phe	Thr	Ile	Asp	Gln	Pro	Arg	Tyr	Gln	Lys	Ala	Leu
				85					90					95	
Glu	Glu	Ala	Glu	Ala	Asp	Val	Ala	Tyr	Tyr	Asn	Ala	Leu	Ala	Ser	Glu
			100					105					110		
Lys	Arg	Arg	Glu	Ala	Gly	Arg	Arg	Asn	Lys	Leu	Gly	Ile	Gln	Ala	Met
	115						120					125			
Ser	Arg	Glu	Glu	Ile	Asp	Gln	Ser	Asn	Asn	Val	Leu	Gln	Thr	Val	Leu
	130					135					140				
His	Gln	Leu	Ala	Lys	Ala	Gln	Ala	Thr	Arg	Asp	Leu	Ala	Lys	Leu	Asp
145					150					155					160
Leu	Glu	Arg	Thr	Val	Ile	Arg	Ala	Pro	Ser	Asp	Gly	Trp	Val	Thr	Asn
				165					170					175	
Leu	Asn	Val	Tyr	Ala	Gly	Glu	Phe	Ile	Thr	Arg	Gly	Ser	Thr	Ala	Val
			180					185					190		
Ala	Leu	Val	Lys	Gln	Asn	Ser	Phe	Tyr	Val	Leu	Ala	Tyr	Met	Glu	Glu
			195				200					205			
Thr	Lys	Leu	Glu	Gly	Val	Arg	Pro	Gly	Tyr	Arg	Ala	Glu	Ile	Thr	Pro
	210					215					220				
Leu	Gly	Ser	Asn	Arg	Val	Leu	Lys	Gly	Thr	Val	Asp	Ser	Val	Ala	Ala
225					230					235					240
Gly	Val	Thr	Asn	Ser	Ser	Ser	Thr	Asn	Asp	Ser	Lys	Gly	Met	Ala	Thr
				245					250					255	
Val	Asp	Ser	Asn	Leu	Glu	Trp	Val	Arg	Leu	Ala	Gln	Arg	Val	Pro	Val
			260					265					270		
Arg	Ile	Arg	Leu	Asp	Glu	Gln	Gln	Ser	Asn	Leu	Trp	Pro	Ala	Gly	Thr
		275					280					285			
Thr	Ala	Thr	Val	Val	Ile	Thr	Gly	Glu	Lys	Asp	Arg	Asp	Ala	Ser	Gln
	290					295				300					
Asp	Ser	Ile	Phe	Arg	Gln	Ile	Ala	His	Arg	Leu	Arg	Glu	Phe	Gly	
305					310					315					320

<210> 8064

<211> 661

<212> PRT

<213> Enterobacter cloacae

<400> 8064

Cys	Ser	Leu	Ala	Pro	Pro	Ser	Thr	His	Gly	Val	Ile	Ser	Arg	Met	Arg
1				5					10					15	
Leu	Thr	Thr	Lys	Phe	Ser	Ala	Phe	Ile	Thr	Leu	Leu	Thr	Gly	Leu	Thr
			20					25					30		
Ile	Phe	Val	Thr	Leu	Ile	Gly	Cys	Ser	Leu	Ser	Phe	Tyr	Asn	Ala	Ile
		35				40					45				
Gln	Asp	Lys	Leu	Val	Asn	Arg	Val	Glu	Ser	Val	Ala	Ser	Val	Ile	Asp
	50					55				60					
Thr	Arg	Leu	Ile	Thr	Ser	Ser	Phe	Pro	Ala	Leu	Ser	Arg	Glu	Leu	Asp
65					70					75					80
Glu	Leu	Met	Val	Pro	Val	Asp	Ile	Val	Gln	Ile	Asp	Ile	Lys	Gln	Gly
			85						90				95		
Lys	Gln	Thr	Val	Phe	Ser	His	Thr	Arg	Gln	Gly	Ser	Tyr	Arg	Pro	Ala
			100					105					110		
Gly	Thr	Val	Asp	Gln	Tyr	Arg	Asp	Val	Thr	Val	Asn	Ser	Leu	Lys	His
	115						120					125			
Pro	Gly	Met	Thr	Ile	His	Leu	Met	Tyr	Gln	Asp	Pro	Met	Ser	Asn	Tyr
	130					135					140				
Leu	Arg	Ser	Leu	Met	Thr	Thr	Ala	Pro	Leu	Thr	Ile	Ala	Val	Ala	Phe
145					150					155					160
Ile	Val	Leu	Leu	Ile	Phe	Leu	Ala	Val	Arg	Trp	Gln	Arg	Arg	Gln	Leu
				165					170					175	

Ser	Gly	Gln	Glu	Leu	Leu	Glu	Thr	Arg	Ser	Val	Arg	Ile	Leu	Asn	Gly
			180					185					190		
Glu	Arg	Gly	Pro	Gln	Val	Arg	Gly	Ser	Val	Tyr	Glu	Trp	Pro	Ser	Arg
		195					200					205			
Thr	Ser	Ser	Ala	Leu	Asp	Val	Leu	Leu	Ser	Glu	Ile	Gln	Phe	Ala	Ser
		210				215					220				
Asp	Gln	Arg	Ser	Arg	Met	Asp	Thr	Leu	Ile	Arg	Ser	Tyr	Ala	Ala	Gln
225					230					235					240
Asp	Asn	Lys	Thr	Gly	Leu	Asn	Asn	Arg	Leu	Phe	Phe	Asp	Asn	Gln	Leu
				245					250					255	
Ala	Thr	Leu	Leu	Asp	Asp	Pro	Glu	Lys	Val	Gly	Thr	His	Gly	Val	Val
			260					265					270		
Met	Met	Ile	Arg	Leu	Pro	Asp	Phe	Asp	Leu	Leu	Arg	Asp	Thr	Trp	Gly
		275					280					285			
Gln	Arg	Val	Ala	Glu	Glu	Asn	Leu	Phe	Thr	Leu	Ile	Asn	Leu	Leu	Ser
		290				295					300				
Thr	Phe	Ile	Met	Arg	Tyr	Pro	Gly	Ala	Leu	Leu	Ala	Arg	Tyr	His	Arg
305					310					315					320
Ser	Asp	Phe	Ala	Val	Leu	Leu	Pro	His	Arg	Thr	Leu	Lys	Glu	Ser	Glu
				325					330					335	
Ser	Ile	Ala	Ser	Gln	Leu	Leu	Lys	Ala	Val	Asp	Ala	Leu	Pro	Gln	Ser
			340					345					350		
Lys	Met	Leu	Asp	Arg	Asp	Asp	Met	Val	His	Ile	Gly	Ile	Cys	Ala	Trp
		355				360						365			
Arg	Gly	Gly	Gln	Ser	Thr	Glu	Gln	Val	Met	Glu	His	Ala	Glu	Ala	Ala
		370				375					380				
Thr	Arg	Asn	Ala	Val	Leu	Gln	Gly	Ala	Asn	Gly	Trp	Ala	Val	Tyr	Asp
385					390					395					400
Asp	Thr	Leu	Pro	Glu	Lys	Gly	Arg	Gly	Asn	Val	Arg	Trp	Arg	Thr	Leu
				405					410					415	
Ile	Glu	Gln	Met	Leu	Ser	Arg	Gly	Gly	Pro	Arg	Ile	Tyr	Gln	Lys	Pro
			420					425					430		
Ala	Val	Met	Lys	Ser	Gly	His	Val	His	His	Arg	Glu	Leu	Met	Cys	Arg
		435					440					445			
Ile	Phe	Asp	Gly	Thr	Glu	Glu	Val	Ile	Ser	Ala	Glu	Tyr	Leu	Pro	Met
		450				455					460				
Val	Leu	Gln	Phe	Gly	Leu	Ser	Glu	Glu	Tyr	Asp	Arg	Gln	Gln	Ile	Thr
465					470					475					480
Arg	Leu	Ile	Pro	Phe	Leu	Ser	Tyr	Trp	Pro	Glu	Glu	Asn	Leu	Ala	Leu
				485					490					495	
Gln	Val	Thr	Val	Glu	Ser	Leu	Ile	Arg	Pro	Arg	Phe	Gln	Arg	Trp	Leu
			500					505					510		
Arg	Asp	Thr	Leu	Met	Gln	Cys	Glu	Lys	Ser	Gln	Arg	Lys	Arg	Ile	Ile
		515					520					525			
Phe	Glu														

660

<210> 8065

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 8065

Gln Arg Lys Arg Ala Ala Leu Ile Phe Thr Val Ala Asp Asp Phe Cys
 1 5 10 15
 Ala Leu Ser Leu Leu Arg Val Val Gly Lys Val Ser Gly Phe Cys Phe
 20 25 30
 Pro Pro Gln Leu Ser Gly Leu Ser Met Leu Lys Lys Phe Arg
 35 40 45
 Gly Met Phe Ser Asn Asp Leu Ser Ile Asp Leu Gly Thr Ala Asn Thr
 50 55 60
 Leu Ile Tyr Val Lys Gly Gln Gly Ile Val Leu Asn Glu Pro Ser Val
 65 70 75 80
 Val Ala Ile Arg Gln Asp Arg Ala Gly Ser Pro Lys Ser Val Ala Ala
 85 90 95
 Val Gly His Asp Ala Lys Gln Met Leu Gly Arg Thr Pro Gly Asn Ile
 100 105 110
 Ala Ala Ile Arg Pro Met Lys Asp Gly Val Ile Ala Asp Phe Phe Val
 115 120 125
 Thr Glu Lys Met Leu Gln His Phe Ile Lys Gln Val His Ser Asn Ser
 130 135 140
 Phe Met Arg Pro Ser Pro Arg Val Leu Val Cys Val Pro Val Gly Ala
 145 150 155 160
 Thr Gln Val Glu Arg Arg Ala Ile Arg Glu Ser Ala Gln Gly Ala Gly
 165 170 175
 Ala Arg Glu Val Phe Leu Ile Glu Glu Pro Met Ala Ala Ala Ile Gly
 180 185 190
 Ala Gly Leu Pro Val Ser Glu Ala Thr Gly Ser Met Val Val Asp Ile
 195 200 205
 Gly Gly Gly Thr Thr Glu Val Ala Val Ile Ser Leu Asn Gly Val Val
 210 215 220
 Tyr Ser Ser Ser Val Arg Ile Gly Gly Asp Arg Phe Asp Glu Ala Ile
 225 230 235 240
 Ile Asn Tyr Val Arg Arg Asn Tyr Gly Ser Leu Ile Gly Glu Ala Thr
 245 250 255
 Ala Glu Arg Ile Lys His Glu Ile Gly Ser Ala Tyr Pro Gly Asp Glu
 260 265 270
 Val Arg Glu Ile Glu Val Arg Gly Arg Asn Leu Ala Glu Gly Val Pro
 275 280 285
 Arg Gly Phe Thr Leu Asn Ser Asn Glu Ile Leu Glu Ala Leu Gln Glu
 290 295 300
 Pro Leu Thr Gly Ile Val Ser Ala Val Met Val Ala Leu Glu Gln Cys
 305 310 315 320
 Pro Pro Glu Leu Ala Ser Asp Ile Ser Glu Arg Gly Met Val Leu Thr
 325 330 335
 Gly Gly Gly Ala Leu Leu Arg Asn Leu Asp Arg Leu Leu Met Glu Glu
 340 345 350
 Thr Gly Ile Pro Val Val Val Ala Glu Asp Pro Leu Thr Cys Val Ala
 355 360 365
 Arg Gly Gly Gly Lys Ala Leu Glu Met Ile Asp Met His Gly Gly Asp
 370 375 380
 Leu Phe Ser Glu Glu
 385 390

<210> 8066

<211> 558

<212> PRT

<213> Enterobacter cloacae

<400> 8066

Ala	Thr	Ala	Gly	Gly	Ala	Gly	Tyr	Leu	Pro	Gly	Glu	Thr	Ala	Asp	Leu
1				5					10					15	
Gly	Ser	Ala	Ala	Ala	Gly	Tyr	Arg	Ala	Gly	Arg	Ala	Ala	Gly	Val	Tyr
		20						25					30		
Ala	Ala	Pro	Leu	Pro	Glu	Cys	Ala	Asp	Arg	Gln	Leu	Thr	Lys	Arg	Lys
		35					40					45			
Pro	Thr	Pro	Lys	Ala	Ser	Val	Phe	Leu	Trp	Leu	Tyr	Leu	Phe	Leu	Gln
	50					55					60				
Val	Gln	Thr	Phe	Arg	Lys	Gly	Gly	His	Met	Thr	Thr	Gln	Ala	Leu	Gln
65					70					75					80
Asp	Ser	Ile	Leu	Phe	Gln	Thr	Gly	Tyr	Leu	Val	Asn	Gly	Ile	Trp	Lys
			85						90					95	
Thr	Leu	Asp	Thr	Thr	Phe	Asp	Val	Leu	Asn	Pro	Ala	Thr	Gly	Glu	Val
		100						105					110		
Ile	Ala	Lys	Val	Ala	Lys	Ala	Gly	Lys	Ala	Glu	Thr	Glu	Glu	Ala	Ile
	115						120					125			
Val	Ala	Ala	Thr	Lys	Ala	Phe	Pro	Ala	Trp	Arg	Ala	Lys	Thr	Ala	Lys
	130					135					140				
Glu	Arg	Ser	Ala	Ile	Leu	Tyr	Arg	Trp	Tyr	Glu	Leu	Ile	Ile	Glu	Asn
145					150					155					160
Lys	Ser	Trp	Leu	Gly	Arg	Leu	Met	Thr	Thr	Glu	Gln	Gly	Lys	Pro	Leu
				165					170					175	
Lys	Glu	Ala	Glu	Gly	Glu	Val	Asp	Tyr	Ala	Ala	Ser	Phe	Ile	Gln	Trp
		180						185					190		
Phe	Ala	Glu	Gln	Ala	Lys	Arg	Ala	Asn	Gly	Glu	Ile	Ile	Pro	Pro	Val
	195						200					205			
Lys	Pro	Gly	Ser	Arg	Ile	Leu	Ala	Thr	Arg	Glu	Pro	Val	Gly	Val	Val
	210				215						220				
Ala	Ala	Ile	Thr	Pro	Trp	Asn	Phe	Pro	Met	Ala	Met	Leu	Thr	Arg	Lys
225					230					235					240
Leu	Gly	Pro	Ala	Leu	Ala	Ala	Gly	Cys	Thr	Gly	Val	Ile	Lys	Pro	Ala
			245						250					255	
Asn	Asn	Thr	Pro	Leu	Ser	Ala	Phe	Ala	Leu	Leu	Thr	Leu	Ala	Lys	Gln
		260						265					270		
Ala	Gly	Val	Pro	Asp	Gly	Val	Leu	Asn	Ala	Val	Ala	Gly	Ser	Thr	Ser
		275					280					285			
Glu	Ile	Ser	Asp	Ala	Ile	Met	Ala	Ser	His	Asp	Val	Arg	Lys	Ile	Ser
	290					295					300				
Phe	Thr	Gly	Ser	Thr	Ala	Val	Gly	Lys	Thr	Leu	Val	Arg	Asn	Ser	Ala
305					310					315					320
Glu	Thr	Met	Lys	Lys	Val	Ser	Met	Glu	Leu	Gly	Gly	Asn	Ala	Pro	Tyr
			325						330					335	
Ile	Val	Phe	Glu	Asp	Ala	Asp	Ile	Asp	Ala	Ala	Val	Lys	Gly	Ala	Ile
		340						345					350		
Ala	Asn	Lys	Phe	Arg	Asn	Ala	Gly	Gln	Val	Cys	Val	Ser	Val	Asn	Arg
		355					360					365			
Phe	Tyr	Ile	Gln	Glu	Thr	Val	Tyr	Asp	Lys	Phe	Val	Asn	Gln	Leu	Ala
	370					375					380				
Asp	Ala	Val	Lys	Ala	Leu	Lys	Val	Gly	Asn	Gly	Leu	Asp	Glu	Gly	Val
385					390					395					400
Val	Val	Gly	Pro	Leu	Ile	Glu	Pro	Ser	Ala	Val	Glu	Lys	Val	Arg	Glu
			405						410					415	
His	Val	Glu	Asp	Ala	Val	Ala	Lys	Gly	Ala	Thr	Val	Leu	Ala	Gly	Gly
		420						425					430		
Lys	Pro	His	Glu	Leu	Gly	Gly	Asn	Phe	Trp	Met	Pro	Thr	Val	Leu	Gly
		435					440					445			
Asp	Cys	His	Glu	Gly	Met	Lys	Leu	Ala	Glu	Glu	Glu	Thr	Phe	Gly	Pro

450		455		460
Val Ala Ala Cys Phe Arg	Phe Thr Ser Glu Asp	Glu Val Val Met Arg		
465	470	475	480	
Ala Asn Asn Thr Pro Tyr	Gly Leu Ala Ala Tyr	Phe Tyr Thr Gln Asn		
	485	490	495	
Leu Ser Arg Val Phe Arg	Val Ser Gln Ala Ile	Glu Ser Gly Met Ile		
	500	505	510	
Gly Ile Asn Glu Cys Ala	Val Ser Thr Glu Leu	Gly Pro Phe Gly Gly		
	515	520	525	
Val Lys Glu Ser Gly Leu	Gly Arg Glu Gly Ser	Val Leu Gly Leu Glu		
	530	535	540	
Glu Phe Leu Glu Val Lys	Thr Leu His Ile Gly	Gly Leu		
545	550	555		

<210> 8067

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8067

Thr Gly Arg His Leu Pro	Pro Ala Cys Thr Gly	Trp Leu Ala Met Lys
1	5	10
Ile Tyr Thr Phe Asp	Phe Asp Glu Ile Glu	Ser Gln Glu Asp Phe Tyr
	20	25
Arg Glu Phe Ile Arg	Ala Phe Asp Leu Glu	Arg Gly Ser Val Ser Asn
	35	40
Leu Asp Met Leu Trp	Asp Val Val Thr Gly	Asp Arg Leu Pro Leu Pro
	50	55
Leu Glu Ile Glu Phe	Thr His Leu Pro Glu	Lys Leu Arg Arg Arg Phe
	65	70
Gly Ala Leu Ile Leu	Leu Phe Asp Glu Ala	Glu Glu Leu Glu Gly
	85	90
Gln Leu Arg Phe Asn	Val Arg Gln	
	100	105

<210> 8068

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8068

Cys Pro Asp Asn Ser Cys	Tyr Ala Ala Asn Arg	Ser Phe Phe Asn Asp
1	5	10
Thr Arg Ile Met Leu	Leu Lys Leu Phe Arg	Ser Ile Val Ile Gly Leu
	20	25
Ile Val Ala Gly Leu	Leu Leu Val Ala Met	Pro Ser Leu Arg Gln Phe
	35	40
Asn Lys Leu Ser Ala	Pro Gln Phe Asp Ser	Thr Asp Glu Thr Pro Ala
	50	55
Thr Tyr Asn Gln Ala	Val Arg Arg Ala Ala	Pro Ala Val Val Asn Val
	65	70
Tyr Asn Arg Gly Leu	Asn Ser Ser Ala His	Asn Gln Leu Glu Ile Arg
	85	90
Thr Leu Gly Ser Gly	Val Ile Met Asp Asp	Arg Gly Tyr Ile Ile Thr
	100	105
Asn Lys His Val Ile	Asn Asp Ala Asp Gln	Ile Ile Val Ala Leu Gln
	115	120
Asp Gly Arg Val Phe	Glu Ala Leu Leu Val	Gly Ser Asp Ser Leu Thr
	130	135
Asp Leu Ala Val Leu	Lys Ile Asn Ala Thr	Gly Gly Leu Pro Thr Ile
	145	150
		155
		160

Pro Ile Asn Arg Lys Arg Thr Pro His Ile Gly Asp Val Val Leu Ala
 165 170 175
 Ile Gly Asn Pro Tyr Asn Leu Gly Gln Thr Ile Thr Gln Gly Ile Ile
 180 185 190
 Ser Ala Thr Gly Arg Ile Gly Leu Asn Pro Ser Gly Arg Gln Asn Phe
 195 200 205
 Leu Gln Thr Asp Ala Ser Ile Asn His Gly Asn Ser Gly Gly Ala Leu
 210 215 220
 Val Asn Ser Leu Gly Glu Leu Met Gly Ile Asn Thr Leu Ser Phe Asp
 225 230 235 240
 Lys Ser Asn Asp Gly Glu Thr Pro Glu Gly Ile Gly Phe Ala Ile Pro
 245 250 255
 Phe Gln Leu Ala Thr Lys Ile Met Asp Lys Leu Ile Arg Asp Gly Arg
 260 265 270
 Val Ile Arg Gly Tyr Ile Gly Ile Gly Gly Arg Glu Ile Ala Pro Met
 275 280 285
 His Thr Gln Gly Gly Gly Ile Asp Gln Ile Gln Gly Ile Val Val Asn
 290 295 300
 Glu Val Ala Pro Gly Gly Pro Ala Ala Asn Ala Gly Ile Gln Val Asn
 305 310 315 320
 Asp Val Ile Leu Ser Val Asn Gly Thr Pro Ala Val Ser Ala Leu Glu
 325 330 335
 Thr Met Asp Gln Val Ala Glu Ile Arg Pro Gly Ser Ile Ile Pro Val
 340 345 350
 Glu Val Met Arg Asn Asp Lys Lys Leu Thr Ile Gln Val Thr Ile Gln
 355 360 365
 Glu Tyr Pro Ala Thr Asn
 370 375

<210> 8069

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 8069

His Ile Arg Ala Asn Pro Pro Pro Pro Ser Cys Leu Glu Lys Arg Leu
 1 5 10 15
 Thr Glu Asp Ala Met Lys Thr Arg Lys Leu Thr Glu Ala Asp Val Thr
 20 25 30
 Ser Glu Ser Val Phe Met Leu Gln Arg Arg Gln Ile Leu Lys Met Leu
 35 40 45
 Gly Ile Ser Ala Thr Ala Leu Thr Leu Thr Pro Ala Ala His Ala Asp
 50 55 60
 Leu Leu Asp Trp Phe Lys Gly Asn Asp Arg Pro Lys Ala Pro Ser Gly
 65 70 75 80
 Ala Pro Leu Asp Phe Thr Lys Pro Ala Gln Trp Gln Asn Lys Leu Thr
 85 90 95
 Leu Thr Pro Glu Asp Lys Val Thr Gly Tyr Asn Asn Phe Tyr Glu Phe
 100 105 110
 Gly Leu Asp Lys Ala Asp Pro Ala Ala Asn Ala Gly Ser Met Lys Thr
 115 120 125
 Asp Pro Trp Thr Leu Lys Ile Asp Gly Glu Val Ala Lys Pro Val Thr
 130 135 140
 Leu Asp His His Asp Leu Thr Thr Arg Phe Pro Leu Glu Glu Arg Ile
 145 150 155 160
 Tyr Arg Met Arg Cys Val Glu Ala Trp Ser Met Val Val Pro Trp Val
 165 170 175
 Gly Phe Pro Leu His Lys Leu Leu Ala Leu Val Glu Pro Thr Ser Asn
 180 185 190
 Ala Lys Tyr Val Ser Phe Gln Thr Arg Tyr Ala Pro Asp Glu Met Pro
 195 200 205

Gly Gln Lys Asp Arg Phe Ile Gly Gly Gly Leu Glu Tyr Pro Tyr Val
 210 215 220
 Glu Gly Leu Arg Leu Asp Glu Ala Met His Pro Leu Thr Leu Leu Thr
 225 230 235 240
 Val Gly Val Tyr Gly Lys Ala Leu Pro Pro Gln Asn Gly Ala Pro Ile
 245 250 255
 Arg Leu Thr Val Pro Trp Lys Tyr Gly Phe Lys Gly Ile Lys Ser Ile
 260 265 270
 Val Ser Ile Lys Leu Thr Arg Glu Arg Pro Pro Thr Thr Trp Asn Leu
 275 280 285
 Ala Ala Pro Asp Glu Tyr Gly Phe Phe Ala Asn Val Asn Pro His Val
 290 295 300
 Asp His Pro Arg Trp Ser Gln Ala Thr Glu Arg Phe Ile Gly Ser Gly
 305 310 315 320
 Gly Ala Leu Asp Val Lys Arg Gln Pro Thr Leu Leu Phe Asn Gly Tyr
 325 330 335
 Ala Asp Glu Val Ala Ser Leu Tyr Arg Gly Leu Asn Leu Arg Glu Asn
 340 345 350
 Phe

<210> 8070

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 8070

Val Arg Leu Thr Ala Lys Gln Ile Thr Trp Leu Lys Val Leu Leu His
 1 5 10 15
 Leu Ala Gly Leu Leu Pro Phe Ile Trp Leu Phe Trp Ala Ala Ser Gln
 20 25 30
 Gly Gln Phe Ser Ala Asp Pro Ala Lys Asp Ile Gln His Phe Thr Gly
 35 40 45
 Arg Met Ala Leu Lys Phe Leu Leu Ala Thr Leu Leu Val Ser Pro Leu
 50 55 60
 Ala Arg Tyr Ala Lys Gln Pro Val Phe Thr Arg Asp Gly Asp His Val
 65 70 75 80
 Lys

<210> 8071

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8071

His Gln Asp Val Phe Gly Ala Val Leu Phe His Ser Arg Ile Arg Glu
 1 5 10 15
 Ser Ala Ser Met Lys Lys Lys Asn Gln Leu Leu Ser Ala Leu Ala Leu
 20 25 30
 Ser Val Gly Leu Ser Leu Ser Ala Ser Phe Pro Ala Ser Ala Ala Leu
 35 40 45
 Pro Ser Gln Val Pro Gly Gln Glu Ala Ile Pro Ser Leu Ala Pro Met
 50 55 60
 Leu Glu Lys Val Leu Pro Ala Val Val Ser Val Gln Val Glu Gly Thr
 65 70 75 80
 Ala Arg Gln Ser Gln Arg Ile Pro Glu Glu Leu Lys Lys Tyr Phe Gly
 85 90 95
 Glu Asp Ala Pro Asp Gln Gln Ala Gln Pro Phe Glu Gly Leu Gly Ser
 100 105 110
 Gly Val Ile Ile Asp Ala Ala Lys Gly Tyr Ile Leu Thr Asn Asn His

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<210> 8072
<211> 73
<212> PRT
<213> Enterobacter cloacae
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Leu	Met	Arg	Ser	Ser	Ser	Lys	Gln	Glu	Glu	Leu	Val	Lys	Ala	Phe	Lys
1				5					10					15	
Ala	Leu	Leu	Lys	Glu	Glu	Lys	Phe	Ser	Ser	Gln	Gly	Arg	Asn	Cys	Ser
			20					25					30		
Gly	Val	Ala	Gly	Thr	Arg	Leu	Arg	Gln	His	Gln	Pro	Val	Glu	Gly	Leu
		35					40					45			
Ser	His	Val	Asn	Gln	Val	Trp	Ser	Gly	Ala	Tyr	Ala	Gln	Arg	Gln	Asn
	50					55					60				
Gly	Asn	Gly	Leu	Leu	Pro	Ala	Cys								

65

70

<210> 8073

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 8073

Gly	Pro	Cys	Met	Gln	Ala	Leu	Ile	Leu	Glu	Gln	Gln	Asp	Gly	Lys	Thr
1				5					10					15	
Val	Ala	Ser	Val	Gln	Ala	Ile	Glu	Glu	Asn	Arg	Leu	Pro	Glu	Gly	Asp
			20					25					30		
Val	Thr	Val	Asp	Ile	Asp	Trp	Ser	Ser	Leu	Asn	Tyr	Lys	Asp	Ala	Leu
		35					40					45			
Ala	Ile	Thr	Gly	Lys	Gly	Lys	Ile	Ile	Arg	Asn	Phe	Pro	Met	Val	Pro
	50					55					60				
Gly	Ile	Asp	Phe	Ala	Gly	Arg	Val	His	Thr	Ser	Glu	Asp	Pro	Arg	Phe
65					70					75					80
His	Ala	Gly	Gln	Gln	Val	Leu	Leu	Thr	Gly	Trp	Gly	Val	Gly	Glu	Asn
			85						90					95	
His	Trp	Gly	Gly	Leu	Ala	Ala	Gln	Ala	Arg	Val	Lys	Gly	Asp	Trp	Leu
			100					105					110		
Val	Pro	Met	Pro	Lys	Gly	Leu	Asp	Gly	Arg	Lys	Ala	Met	Ile	Ile	Gly
		115					120					125			
Thr	Ala	Gly	Phe	Thr	Ala	Met	Leu	Cys	Val	Met	Ala	Leu	Glu	Glu	Ala
	130					135					140				
Gly	Ile	Arg	Pro	Asp	Ser	Gly	Glu	Ile	Val	Val	Thr	Gly	Ala	Ser	Gly
145					150					155					160
Gly	Val	Gly	Ser	Thr	Ala	Val	Thr	Leu	Leu	His	Lys	Leu	Gly	Tyr	Gln
			165					170						175	
Val	Ala	Ala	Val	Ser	Gly	Arg	Glu	Ser	Thr	His	Asp	Tyr	Leu	Arg	Gln
			180					185					190		
Leu	Gly	Ala	Ser	Arg	Ile	Leu	Ser	Arg	Asp	Glu	Phe	Ala	Glu	Thr	Arg
	195						200					205			
Pro	Leu	Glu	Lys	Gln	Val	Trp	Ala	Gly	Ala	Val	Asp	Thr	Val	Gly	Asp
	210					215					220				
Asn	Val	Leu	Ala	Lys	Val	Leu	Ala	Gln	Met	Asn	Tyr	Gly	Gly	Cys	Val
225					230					235					240
Ala	Ala	Cys	Gly	Leu	Ala	Gly	Gly	Phe	Ala	Leu	Pro	Thr	Thr	Val	Met
			245					250						255	
Pro	Phe	Ile	Leu	Arg	Asn	Val	Arg	Leu	Gln	Gly	Val	Asp	Ser	Val	Met
		260						265					270		
Ser	Pro	Ala	Glu	Arg	Arg	Ala	Glu	Ala	Trp	Glu	Arg	Leu	Val	Gln	Asp
	275						280					285			
Leu	Pro	Ala	Ser	Phe	Tyr	Glu	Gln	Ser	Ala	Thr	Glu	Ile	Thr	Leu	Ser
	290					295					300				
Gln	Ala	Pro	Glu	Phe	Ala	Asn	Lys	Ile	Met	Asp	Asn	Gln	Phe	His	Gly
305					310					315					320
Arg	Ala	Leu	Val	Lys	Ile	Ala									
				325											

<210> 8074

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 8074

Glu	Thr	Ser	Pro	Ser	Ser	Pro	Arg	Arg	Val	Lys	Gln	Pro	Thr	Pro	Gly
1				5					10					15	
Gly	Thr	Thr	Arg	Gln	Arg	Glu	Lys	Phe	Met	Thr	Trp	Glu	Tyr	Ala	Leu
			20					25					30		

Ile Gly Leu Val Val Gly Ile Ile Ile Gly Ala Val Ala Met Arg Phe
 35 40 45
 Gly Asn Arg Lys Leu Arg Gln Gln Ser Leu Gln Tyr Glu Leu Glu
 50 55 60
 Lys Asn Lys Ala Glu Leu Glu Glu Tyr Arg Glu Glu Leu Val Ser His
 65 70 75 80
 Phe Ala Arg Ser Ala Glu Leu Leu Asp Asn Met Ala Thr Asp Tyr Arg
 85 90 95
 Gln Leu Tyr Gln His Met Ala Lys Ser Ser Ser Ser Leu Leu Pro Glu
 100 105 110
 Met Thr Ala Glu Thr Asn Pro Phe Arg Asn Arg Leu Ala Asp Ser Glu
 115 120 125
 Ala Gly Asn Asp Gln Ala Pro Val Gln Met Pro Arg Asp Tyr Ser Asp
 130 135 140
 Gly Ala Ser Gly Leu Leu Arg Gly Gly Val Lys Arg Asp
 145 150 155

<210> 8075

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 8075

Arg Arg Leu Lys Arg Tyr Ser Lys Lys Arg Asn Ser Val Leu Arg Gly
 1 5 10 15
 Glu Ile Val Gln Ala Leu Gln Glu Gln Gly Phe Asp Asn Ile Asn Gln
 20 25 30
 Ser Lys Val Ser Arg Met Leu Thr Lys Phe Gly Ala Val Arg Thr Arg
 35 40 45
 Asn Ala Lys Met Glu Met Val Tyr Cys Leu Pro Ala Glu Leu Gly Val
 50 55 60
 Pro Thr Thr Ser Ser Pro Leu Lys Asn Leu Val Leu Asp Ile Asp Tyr
 65 70 75 80
 Asn Asp Ala Val Val Val Ile His Thr Ser Pro Gly Ala Ala Gln Leu
 85 90 95
 Ile Ala Arg Leu Leu Asp Ser Leu Gly Lys Ala Glu Gly Ile Leu Gly
 100 105 110
 Thr Ile Ala Gly Asp Asp Thr Ile Phe Thr Thr Pro Ala Asn Gly Phe
 115 120 125
 Ser Val Lys Asp Leu Tyr Glu Ala Ile Leu Val Leu Phe Glu Gln Glu
 130 135 140
 Leu
 145

<210> 8076

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 8076

Ile Ile Met Lys Ile Lys Thr Thr Val Ala Thr Leu Ser Val Leu Ser
 1 5 10 15
 Val Leu Ser Phe Gly Ala Phe Ala Ala Asp Thr Ile Asn Ala Glu Gln
 20 25 30
 Ala Gln Ser Arg Gln Ala Ile Gly Thr Val Ser Val Gly Ala Ile Gly
 35 40 45
 Thr Ser Pro Met Asp Met His Glu Met Leu Asn Lys Lys Ala Glu Glu
 50 55 60
 Gln Gly Ala Ser Ser Tyr Arg Ile Ile Glu Ala Arg Ser Gly Asp His
 65 70 75 80
 Trp His Ala Thr Ala Glu Leu Tyr Lys

85

90

<210> 8077

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 8077

Lys Arg Phe Thr Leu Thr Gln Thr Cys Pro Ala Leu Arg Asn Leu Leu
 1 5 10 15
 Ala Ile Ala Pro Leu Thr Ala Ala Ser Ile Ser Ala Ser Ser Lys Thr
 20 25 30
 Ile Tyr Gly Ala Leu Pro Pro Ser Ile Asp Thr Phe Phe Met Val
 35 40 45
 Ser Ala Glu Leu Arg Thr Ser Val Phe Pro Thr Ala Val Glu Pro Val
 50 55 60
 Asn Glu Ile Leu Arg Thr Ser Trp Leu Ala Ile Met Ala Ser Leu Ile
 65 70 75 80
 Ser Glu Val Leu Pro Ala Thr Ala Phe Ser Thr Pro Ser Gly Thr Pro
 85 90 95
 Ala Cys Phe Ala Ser Val Ser Ser Ala Lys Ala Leu Ser Gly Val Leu
 100 105 110
 Phe Ala Gly Leu Ile Thr Pro Val His Pro Ala Ala Ser Ala Gly Pro
 115 120 125
 Ser Leu Arg Val Ser Ile Ala Ile Gly Lys Phe His Gly Val Ile Ala
 130 135 140
 Ala Thr Thr Pro Thr Gly Ser Arg Val Ala Arg Ile Arg Glu Pro Gly
 145 150 155 160
 Leu Thr Gly Gly Met Ile Ser Pro Leu Ala Arg Leu Ala Cys Ser Ala
 165 170 175
 Asn His

<210> 8078

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 8078

Ile Met Glu Arg Leu Lys Arg Met Ser Val Phe Ala Lys Val Val Glu
 1 5 10 15
 Gln Gly Ser Phe Thr Ala Ala Ala Arg Gln Leu Gln Met Ser Val Ser
 20 25 30
 Ser Ile Ser Gln Thr Val Ser Lys Leu Glu Asp Glu Leu Gln Val Lys
 35 40 45
 Leu Leu Asn Arg Ser Thr Arg Ser Ile Gly Leu Thr Glu Ala Gly Lys
 50 55 60
 Ile Tyr Tyr Gln Gly Cys Arg Arg Met Leu His Glu Val Gln Asp Val
 65 70 75 80
 His Glu Gln Leu Tyr Ala Phe Asn Asn Thr Pro Ile Gly Thr Leu Arg
 85 90 95
 Ile Gly Cys Ser Ser Thr Met Ala Gln Asn Val Leu Ala Ala Met Thr
 100 105 110
 Ala Glu Met Leu Lys Glu Tyr Pro Gly Leu Thr Val Asn Leu Val Thr
 115 120 125
 Gly Ile Pro Ala Pro Asp Leu Ile Ala Asp Gly Leu Asp Val Val Ile
 130 135 140
 Arg Val Gly Ala Leu Gln Asp Ser Ser Leu Phe Ser Arg Arg Leu Gly
 145 150 155 160
 Ser Met Pro Met Val Val Cys Ala Ser Lys Ser Tyr Leu Ala Gln Tyr
 165 170 175

Gly Val Pro Glu Lys Pro Ala Asp Leu Ser Asn His Ser Trp Leu Glu
 180 185 190
 Tyr Ser Val Arg Pro Asp Asn Glu Phe Glu Leu Ile Ala Pro Glu Gly
 195 200 205
 Leu Ser Thr Lys Leu Leu Pro Glu Gly Arg Phe Val Thr Asn Asp Pro
 210 215 220
 Met Thr Ile Ser Arg Trp Leu Val Ala Gly Ala Gly Ile Ala Tyr Val
 225 230 235 240
 Pro Leu Met Trp Val Ile Asn Glu Ile Asn Ser Gly Val Leu Glu Ile
 245 250 255
 Leu Phe Pro Arg Tyr Gln Ser Asp Pro Arg Pro Val Tyr Ala Leu Tyr
 260 265 270
 Thr Glu Lys Asp Lys Leu Pro Leu Lys Val Gln Val Cys Ile Asn Tyr
 275 280 285
 Leu Thr Asp Tyr Phe Val Glu Val Ala Glu Leu Phe Gln Gly Met Arg
 290 295 300
 Gly Arg Arg Lys Glu
 305 310

<210> 8079

<211> 577

<212> PRT

<213> Enterobacter cloacae

<400> 8079

Ile Asp Asp Asn Tyr Cys Ser Gly Phe Phe Met Arg Gln Leu Asn Arg
 1 5 10 15
 Leu Asn Gln Tyr Gln Arg Leu Trp His Pro Ser Ala Gly Ala Pro Gln
 20 25 30
 Gln Val Thr Ile Ser Glu Leu Ala Ser Arg Cys Phe Cys Ser Glu Arg
 35 40 45
 His Val Arg Thr Leu Leu Arg Gln Ala Gln Glu Ala Gly Trp Leu Ser
 50 55 60
 Trp His Ala Arg Ser Gly Arg Gly Lys Arg Gly Glu Leu Arg Phe His
 65 70 75 80
 Val Thr Pro Asp Ser Leu Arg Asn Thr Met Met Glu Glu Ala Leu Lys
 85 90 95
 Ser Gly Gln Gln His Asn Ala Leu Glu Leu Ala Gln Leu Ala Pro Glu
 100 105 110
 Asp Leu Arg Ser Leu Leu His Pro Phe Met Gly Gly Gln Trp Gln Asn
 115 120 125
 Asp Thr Pro Thr Leu Arg Ile Pro Tyr Tyr Arg Ser Leu Glu Pro Leu
 130 135 140
 Gln Pro Gly Phe Leu Pro Gly Arg Ala Glu Gln His Leu Ala Gly Gln
 145 150 155 160
 Val Phe Ser Gly Leu Thr Arg Phe Asn Gly Asn Ser Ser Glu Pro Thr
 165 170 175
 Gly Asp Leu Ala His His Trp Glu Val Ser Ala Asp Gly Leu Arg Trp
 180 185 190
 His Phe Tyr Ile Arg Ser Thr Leu His Trp His Asn Gly Asp Lys Ile
 195 200 205
 Glu Thr Ala Gln Leu Arg Gln Ser Leu Thr Ala Leu Leu Ser Gln Pro
 210 215 220
 Gly Met Gly Thr Leu Phe Arg Ser Val Leu Arg Ile Glu Thr Thr His
 225 230 235 240
 Pro Gln Cys Leu Thr Phe Ile Leu His Gln Pro Asp Tyr Trp Leu Ala
 245 250 255
 His Arg Leu Ala Thr Tyr Cys Ser Arg Leu Ala His Pro Asp Tyr Pro
 260 265 270
 Val Val Gly Ser Gly Pro Phe Arg Leu Ser Val Phe Glu Pro Glu Leu
 275 280 285

Val Arg Leu Glu Ser His Glu Gln Tyr His Leu Gly His Pro Leu Leu
 290 295 300
 Lys Ala Ile Glu Tyr Trp Ile Thr Pro Gln Leu Phe Asp Tyr Ser Leu
 305 310 315 320
 Gly Thr Ser Cys Arg His Pro Val Gln Ile Ala Ile Gly Glu Ala Asp
 325 330 335
 Glu Leu Ala Ser Leu Arg Leu Val Ser Asn Ser Thr Ser Leu Gly Phe
 340 345 350
 Cys Tyr Leu Thr Leu Lys Gln Ser Pro Arg Leu Ser Glu Leu Gln Ala
 355 360 365
 Lys Arg Leu Ile Asn Ile Ile His Leu Ser Thr Leu Leu His Thr Leu
 370 375 380
 Pro Leu Asn Glu Gly Leu Ile Thr Pro Thr Glu Glu Leu Leu Pro Gly
 385 390 395 400
 Trp Ala Ile Pro Gln Trp Pro Asp Leu Thr Asp Val Ala Leu Pro Glu
 405 410 415
 Ala Leu Thr Leu Val Tyr His Leu Pro Val Glu Leu His Thr Met Ala
 420 425 430
 Ser Gln Leu Lys Ala Tyr Leu Thr Arg Gln Gly Cys Glu Leu Thr Val
 435 440 445
 Ile Phe His Asp Ala Lys Thr Trp Asp Gly Cys Gln Leu Ala Asp
 450 455 460
 Ala Asp Ile Met Met Gly Asp Arg Leu Ile Gly Glu Ala Pro Ala Tyr
 465 470 475 480
 Thr Leu Glu Gln Trp Leu Arg Cys Asp Ala Leu Trp Pro His Leu Leu
 485 490 495
 Ser Ala Pro Ala Phe Ala His Leu Gln Ala Thr Leu Asp Ala Val Gln
 500 505 510
 Ser Gln Ala Asp Glu Arg Asp Arg His Ala Gly Leu Gln Ala Ile Phe
 515 520 525
 Ser Arg Leu Met Glu Thr Ala Val Leu Thr Pro Leu Phe Asn Tyr Gln
 530 535 540
 Tyr Gln Ile Ser Ala Pro Pro Gly Val Asn Gly Ile Arg Leu Asn Thr
 545 550 555 560
 Arg Gly Trp Phe Asp Phe Thr Glu Ala Trp Leu Pro Pro Pro Asn Ala
 565 570 575

<210> 8080

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8080

Ser Met Lys Arg Ala Val Val Val Phe Ser Gly Gly Gln Asp Ser Thr
 1 5 10 15
 Thr Cys Leu Ile Gln Ala Leu His Gln Tyr Asp Glu Val His Cys Val
 20 25 30
 Thr Phe Asp Tyr Gly Gln Arg His Arg Ala Glu Ile Asp Val Ala Arg
 35 40 45
 Glu Leu Ala Leu Lys Leu Gly Ala Arg Ala His Lys Val Leu Asp Val
 50 55 60
 Thr Leu Leu Asn Glu Leu Ala Val Ser Ser Leu Thr Arg Asp Ser Ile
 65 70 75 80
 Pro Val Pro Asp Tyr Glu Pro Asp Ala Ser Gly Ile Pro Asn Thr Phe
 85 90 95
 Val Pro Gly Arg Asn Ile Leu Phe Leu Thr Leu Thr Ala Ile Tyr Ala
 100 105 110
 Tyr Gln Val Lys Ala Glu Ala Val Ile Thr Gly Val Cys Glu Thr Asp
 115 120 125

Phe Ser Gly Tyr Pro Asp Cys Arg Asp Glu Phe Val Lys Ala Leu Asn
 130 135 140
 His Ala Val Asp Leu Gly Met Ala Lys Glu Thr Arg Phe Glu Thr Pro
 145 150 155 160
 Leu Met Trp Leu Asp Lys Ala Glu Thr Trp Ala Leu Ala Asp Tyr Trp
 165 170 175
 Gly Lys Leu Asp Val Val Arg Asn Glu Thr Leu Thr Cys Tyr Asn Gly
 180 185 190
 Ile Lys Gly Asp Gly Cys Gly Gln Cys Ala Ala Cys Asn Leu Arg Ala
 195 200 205
 Asn Gly Leu Asn His Tyr Phe Ala Asp Lys Ala Gly Val Met Ala Ala
 210 215 220
 Met Gln Lys Lys Thr Gly Leu Lys
 225 230

<210> 8081

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 8081

Gln Gln Phe Phe Leu Cys Phe Ser Leu Cys Trp Ala Gln Asn Asp Lys
 1 5 10 15
 Arg Ile Thr Thr Met Asn Ser Thr Trp Val Lys His Ala Ile Ser Glu
 20 25 30
 Ile Asn Ala Asp Tyr Gln Arg Ser Ala Asp Thr His Leu Ile Arg Leu
 35 40 45
 Pro Leu Pro Gly Phe Pro Gly Ile Gln Leu Tyr Leu Lys Asp Glu Ser
 50 55 60
 Thr His Pro Thr Gly Ser Leu Lys His Arg Leu Ala Arg Ser Leu Phe
 65 70 75 80
 Leu Tyr Gly Leu Cys Asn Gly Trp Ile Lys Glu Gly Thr Thr Ile Ile
 85 90 95
 Glu Ser Ser Ser Gly Ser Thr Ala Val Ser Glu Ala Tyr Phe Ala Arg
 100 105 110
 Leu Leu Gly Leu Pro Phe Ile Ala Val Met Pro Ser Cys Thr Ala Lys
 115 120 125
 Arg Lys Val Glu Gln Ile Glu Phe Tyr Gly Gly Arg Cys His Phe Val
 130 135 140
 Asp Ser Ala Cys Glu Ile Tyr Ala Ala Ser Glu Met Leu Ala Arg Glu
 145 150 155 160
 Leu Asn Gly His Tyr Met Asp Gln Phe Thr Phe Ala Glu Arg Ala Thr
 165 170 175
 Asp Trp Arg Gly Asn Asn Asn Ile Ala Asp Ser Ile Phe Arg Gln Met
 180 185 190
 Thr His Glu Pro His Pro Leu Pro Ser Tyr Ile Val Met Ser Ala Gly
 195 200 205
 Thr Gly Gly Thr Ser Ala Thr Ile Gly Arg Tyr Ile Arg Cys Gln Gly
 210 215 220
 Tyr Asp Thr Gln Leu Met Val Val Asp Pro Gln Asn Ser Val Phe Leu
 225 230 235 240
 Asp Tyr Trp Gln Ser Arg Asp Ala Ser Leu Arg Ser Pro Val Gly Ser
 245 250 255
 Lys Ile Glu Gly Ile Gly Arg Pro Arg Val Glu Pro Ser Phe Ile Pro
 260 265 270
 Asp Val Val Asp Glu Met Leu Arg Val Pro Asp Ala Ala Ser Val Ala
 275 280 285
 Thr Ala His Trp Leu Glu Thr Gln Leu Gly Arg Lys Val Gly Ala Ser
 290 295 300
 Thr Gly Thr Asn Met Trp Gly Ala Leu Gln Leu Ala Ala Arg Met Arg
 305 310 315 320

Glu	Glu	Gly	Arg	Thr	Gly	Ser	Val	Val	Thr	Leu	Leu	Cys	Asp	Ser	Gly
				325					330					335	
Glu	Arg	Tyr	Leu	Asp	Thr	Tyr	Tyr	Asn	Ala	Glu	Trp	Val	Gln	Ala	Asn
			340					345					350		
Ile	Gly	Asp	Val	Glu	Pro	Trp	Lys	Ala	Gln	Ile	Ser	Gln	Leu	Val	Lys
		355					360					365			

<210> 8082

<211> 522

<212> PRT

<213> Enterobacter cloacae

<400> 8082

Asn	Ser	Met	Arg	Thr	Arg	His	Leu	Val	Ser	Leu	Val	Thr	Gly	Val	Leu
1				5					10					15	
Ile	Phe	Ser	Val	Leu	Val	Pro	Val	Cys	Leu	Ser	Ile	Trp	Leu	Ala	His
			20					25					30		
Arg	Gln	Ala	Glu	Glu	Lys	Phe	Val	Asp	Ala	Leu	Asp	Ser	Tyr	Ala	Ser
		35					40					45			
Arg	Val	Leu	Ile	Arg	Thr	Asp	Arg	Val	Val	Ala	Gln	Ala	Lys	Gln	Ala
	50					55					60				
Leu	Thr	His	Leu	Gln	Thr	Phe	His	Ala	Pro	Pro	Cys	Thr	Pro	Pro	His
65					70					75					80
Leu	Arg	Glu	Met	Arg	Arg	Val	Ala	Phe	Ser	Trp	Arg	Tyr	Ile	Gln	Glu
			85						90					95	
Val	Met	Tyr	Ile	Asp	Asn	Leu	Lys	Pro	Leu	Cys	Ser	Ser	Leu	Glu	Gln
			100					105					110		
Ser	Ser	Asp	Thr	Ala	Ile	Leu	Pro	Pro	Pro	Met	Arg	Ile	Thr	Glu	Asn
		115					120					125			
Gly	Tyr	Ser	Ala	Trp	Leu	Thr	Ser	Gln	Asn	Asp	Leu	Gly	Ile	Gln	Arg
	130					135					140				
Tyr	Met	Ala	Val	Leu	Gly	Lys	Gly	His	Tyr	Leu	Val	Met	Val	Asp	Pro
145					150					155					160
Ala	Ser	Leu	Val	Asp	Val	Val	Pro	Phe	Gly	Glu	Ile	Ser	Met	Asp	Ala
			165						170					175	
Ala	Leu	Val	Gly	Ser	Ser	Thr	His	His	Ile	Phe	Ala	Arg	Ser	Asn	Val
			180					185					190		
Leu	Asp	Pro	Tyr	Ile	Leu	Ser	Val	Lys	Glu	Gln	Gln	Asp	Val	Thr	
	195					200					205				
Arg	Val	Gln	Tyr	Asn	Gly	Ser	Met	Tyr	Val	Met	Lys	Pro	Val	Pro	Glu
	210				215						220				
Leu	Gly	Phe	Thr	Val	Ile	Ala	Trp	Ala	Ser	Leu	Lys	Pro	Leu	Ala	Ala
225					230					235					240
Ser	Trp	His	Gln	Gln	Leu	Ile	Ile	Trp	Leu	Pro	Ala	Gly	Ile	Leu	Leu
			245					250						255	
Ser	Leu	Val	Ala	Ala	Leu	Ile	Val	Leu	Arg	Ile	Leu	Arg	Arg	Leu	Leu
			260					265					270		
Ser	Pro	Arg	His	Arg	Leu	Ile	Asp	Ala	Ile	Asn	Asn	Arg	Glu	Ile	Glu
		275					280					285			
Val	His	Tyr	Gln	Pro	Ile	Val	Ala	Leu	Cys	Ser	Gly	Lys	Leu	Val	Gly
	290					295					300				
Ala	Glu	Ala	Leu	Met	Arg	Trp	Pro	Gln	Pro	Glu	Gly	Ser	Asn	Leu	Ser
305				310						315					320
Pro	Asn	Leu	Phe	Val	Pro	Leu	Ala	Glu	Gln	Thr	Gly	Leu	Ile	Ser	Thr
			325						330					335	
Leu	Thr	Arg	Leu	Val	Val	Asn	Glu	Val	Phe	Glu	Asp	Leu	Gly	Ala	Trp
			340					345					350		
Leu	His	His	His	Pro	Glu	Leu	His	Ile	Ser	Val	Asn	Leu	Ala	Pro	Ser
		355					360					365			

Asp Leu Thr Ser Pro Glu Leu Pro Arg Gln Leu Ser Gln Leu Leu Asn
 370 375 380
 Lys Trp Gly Val His Pro Arg Gln Ile Ala Leu Glu Leu Thr Glu Arg
 385 390 395 400
 Gly Phe Ala Asp Pro Ala Val Ser Val Pro Ala Ile Ala Ala Phe Arg
 405 410 415
 Arg Ala Gly His Ala Ile Tyr Ile Asp Asp Phe Gly Thr Gly Tyr Ser
 420 425 430
 Ser Leu Ser Tyr Leu Gln Asp Leu Asp Val Asp Thr Leu Lys Ile Asp
 435 440 445
 Lys Ser Phe Val Asp Ala Leu Glu Tyr Lys His Val Thr Pro His Ile
 450 455 460
 Ile Glu Met Ala Lys Ser Leu Lys Leu Ala Met Val Ala Glu Gly Ile
 465 470 475 480
 Glu Thr Glu Gly Gln Ile Glu Trp Leu His Arg His Gly Val Gln Tyr
 485 490 495
 Gly Gln Gly Trp Tyr Phe Ser Lys Ala Leu Pro Lys Glu Asp Phe Ile
 500 505 510
 Leu Trp Ala Ala His Asn Leu Arg Lys
 515 520

<210> 8083

<211> 513

<212> PRT

<213> Enterobacter cloacae

<400> 8083

Thr Asp Ile Lys Leu Tyr Gln Thr Thr Tyr His Phe Leu Phe Ser Glu
 1 5 10 15
 Val Pro Gly Ser Ile Phe Gly Glu Asn Gly Thr Met Ile Asn Val Gln
 20 25 30
 Phe Ser Asn Ser Gly Leu His Met Ser Ser Arg Arg Phe Gly Ser Gln
 35 40 45
 Ser Leu Val Arg Leu Leu Gly His Trp Gln Gln Ala Ser Ser Arg Thr
 50 55 60
 Pro Leu Trp Arg Gln Leu Ala Asp Ala Leu Arg Leu Leu Ile Leu Asp
 65 70 75 80
 Gly Arg Leu Ala Leu Asn Thr Arg Leu Pro Gly Glu Arg Glu Leu Ala
 85 90 95
 Thr Ala Leu Ser Val Ser Arg Thr Thr Ile Ser Ser Ala Leu Ala His
 100 105 110
 Leu Arg Glu Glu Gly Tyr Leu Glu Ser Arg His Gly Ser Gly Ser Arg
 115 120 125
 Ala Ile Leu Pro Asp Ser Arg Ala Val Pro Thr Leu Ser Thr Ala Ser
 130 135 140
 Ala Ala Leu Asp Leu Ser Thr Ala Ala Leu Asn Ala Gly Pro Glu Ile
 145 150 155 160
 His Gln Ala Tyr Ala His Ala Leu Thr Ala Ile Thr Pro Asn Leu Ala
 165 170 175
 Leu Thr Gly Tyr Asp Gln Leu Gly Leu Pro Ala Leu Arg Glu Ala Ile
 180 185 190
 Ala Ala Arg Tyr Thr Ala Arg Gly Leu Pro Thr Arg Ala Asp Glu Val
 195 200 205
 Met Val Val Asn Gly Ala Val Ser Gly Phe Ala Leu Ile Leu Arg Met
 210 215 220
 Met Thr Gly Pro Gly Asp Arg Val Val Val Asp His Pro Thr Tyr Pro
 225 230 235 240
 Leu Ala Ile Ala Ala Ile Gln Gly Ala Leu Cys Arg Pro Val Gly Val
 245 250 255
 Ser Leu Pro Glu Thr Gly Trp Asp Thr Asp Gly Phe Ala Ala Thr Leu
 260 265 270

Ala Gln Thr Ala Pro Arg Leu Ala Tyr Leu Met Pro Asp Phe His Asn
 275 280 285
 Pro Thr Gly Arg Cys Met Asp Ala Ala Thr Arg Gln Thr Ile Thr Asp
 290 295 300
 Ile Ala Ala Gln Thr Arg Thr Thr Leu Val Val Asp Glu Thr Met Val
 305 310 315 320
 Asp Leu Trp Phe Asp Ala Pro Pro Pro Pro Leu Ala Ala Phe Asn
 325 330 335
 Pro Glu Ala Ala Val Met Thr Leu Gly Ser Ala Gly Lys Ser Phe Trp
 340 345 350
 Gly Gly Leu Arg Leu Gly Trp Ile Arg Ala Ser Ser Arg Thr Ile Ala
 355 360 365
 Thr Leu Ala Gln Thr Arg Asp Thr Leu Asp Leu Gly Ser Pro Val Leu
 370 375 380
 Glu Gln Leu Ala Thr Leu Trp Leu Ile Glu Asn Ser Glu Thr Phe Leu
 385 390 395 400
 Pro Ala Arg Arg Glu Met Leu Ala Glu Arg Arg Asp Arg Cys Gly Gln
 405 410 415
 Met Leu Arg Glu His Phe Pro Glu Trp Arg Phe Gln Glu Ala Glu Gly
 420 425 430
 Gly Leu Ser Tyr Trp Ile Glu Leu Pro Gly Met Leu Ala Thr Gln Leu
 435 440 445
 Ala Ala Arg Ala Glu Thr Thr Gly Ile Ile Met Gly Thr Gly Thr Arg
 450 455 460
 Phe Gly Leu Ser Gly Ala Phe Asp Arg Tyr Leu Arg Met Pro Phe Ser
 465 470 475 480
 Leu Ser Pro Pro Glu Leu Glu Glu Ala Leu Leu Arg Ile Lys Pro Leu
 485 490 495
 Trp Arg Ala Leu Asn Lys Ser Val Ala Pro Val Lys Arg Ser Leu Val
 500 505 510

<210> 8084

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8084

Phe Pro Ala Gly Glu Thr Met Asp Glu His Asp Thr Phe Pro Gln Arg
 1 5 10 15
 Val Trp Gln Ile Val Ala Ser Ile Pro Glu Gly Cys Val Thr Thr Tyr
 20 25 30
 Gly Glu Val Ala Arg Leu Ala Gly Ser Pro Arg Ala Ala Arg Gln Val
 35 40 45
 Gly Gly Val Leu Arg Arg Leu Pro Glu Gly Ser Thr Leu Pro Trp His
 50 55 60
 Arg Val Val Asn Arg His Gly Ala Ile Ser Leu Thr Gly Pro Asp Leu
 65 70 75 80
 Gln Arg Gln Arg Gln Ala Leu Leu Ser Glu Gly Val Gln Val Ser Gly
 85 90 95
 Ala Gly Gln Ile Asp Met Gln Lys Tyr Arg Trp Glu Tyr
 100 105 110

<210> 8085

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8085

Asp Tyr Ser Thr His Arg Thr Thr Ile Val Ser Ala Leu Tyr Ser Ala

1				5				10				15			
Tyr	Leu	Ser	Pro	Arg	Arg	Leu	Leu	Arg	Thr	Thr	Met	Ser	Gln	Ala	Leu
			20					25					30		
Asn	Asn	Leu	Leu	Thr	Leu	Leu	Asn	Leu	Glu	Lys	Ile	Glu	Gly	Leu	
		35					40					45			
Phe	Arg	Gly	Gln	Ser	Glu	Asp	Leu	Gly	Leu	Arg	Gln	Val	Phe	Gly	Gly
	50					55					60				
Gln	Val	Val	Gly	Gln	Ala	Leu	Tyr	Ala	Ala	Lys	Glu	Thr	Val	Pro	Ala
65					70					75					80
Asp	Arg	Leu	Val	His	Ser	Phe	His	Ser	Tyr	Phe	Leu	Arg	Pro	Gly	Asp
				85					90					95	
Ser	Ala	Lys	Pro	Ile	Val	Tyr	Asp	Val	Glu	Val	Leu	Arg	Asp	Gly	Gln
			100					105					110		
Ser	Phe	Ser	Ala	Arg	Arg	Val	Ala	Ala	Ile	Gln	His	Gly	Lys	Pro	Ile
		115					120					125			
Phe	Tyr	Met	Thr	Ala	Ser	Phe	Gln	Ala	Pro	Glu	Pro	Gly	Tyr	Glu	His
	130					135					140				
Gln	Lys	Lys	Met	Pro	Pro	Ala	Pro	Ser	Pro	Asp	Asp	Leu	Lys	Ser	Glu
145					150					155					160
Thr	Glu	Ile	Ala	Arg	Ala	Leu	Ala	His	Leu	Leu	Pro	Pro	Gln	Val	Lys
				165					170					175	
Glu	Lys	Phe	Leu	Cys	Asp	Lys	Pro	Leu	Glu	Ile	Arg	Pro	Val	Glu	Phe
			180					185					190		
His	Asn	Pro	Met	Lys	Gly	His	Thr	Ala	Glu	Pro	Ala	Arg	Gln	Val	Trp
	195						200					205			
Ile	Arg	Ala	Asn	Gly	Ser	Val	Pro	Ala	Asp	Leu	Arg	Val	His	Gln	Tyr
	210					215					220				
Leu	Leu	Gly	Tyr	Ala	Ser	Asp	Phe	Asn	Phe	Leu	Pro	Val	Ala	Leu	Gln
225					230				235						240
Pro	His	Gly	Val	Gly	Phe	Leu	Glu	Lys	Gly	Met	Gln	Val	Ala	Thr	Ile
				245					250					255	
Asp	His	Ser	Met	Trp	Phe	His	Arg	Pro	Phe	Asp	Met	Asn	Glu	Trp	Leu
			260					265					270		
Leu	Tyr	Ser	Val	Glu	Ser	Thr	Ser	Ala	Ser	Ser	Ala	Arg	Gly	Phe	Val
	275						280					285			
Arg	Gly	Glu	Phe	Tyr	Thr	Gln	Asp	Gly	Val	Leu	Val	Ala	Ser	Thr	Val
	290					295					300				
Gln	Glu	Gly	Val	Met	Arg	Asn	Arg	Gly							
305					310										

<210> 8086

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 8086

Arg	Cys	Asn	Arg	Val	Ile	Thr	Cys	Thr	Ala	Ala	Lys	Ile	Cys	Gln	Asp
1				5					10					15	
Lys	Glu	Val	Ile	Pro	Val	Met	Thr	Ser	Glu	Pro	Ile	Thr	Thr	Lys	Gly
			20					25					30		
Tyr	Cys	Ala	Met	Gln	Thr	Gln	Ile	Lys	Val	Arg	Gly	Tyr	His	Leu	Asp
		35					40					45			
Val	Tyr	Gln	His	Val	Asn	Asn	Ala	Arg	Tyr	Leu	Glu	Phe	Leu	Glu	Glu
	50					55					60				
Ala	Arg	Trp	Asp	Gly	Leu	Glu	Asn	Ser	Glu	Ser	Phe	Leu	Trp	Leu	Thr
65					70					75					80
Ala	His	Asn	Ile	Ala	Phe	Val	Val	Val	Asn	Ile	Asn	Ile	Asn	Tyr	Arg
				85					90					95	
Arg	Pro	Ala	Val	Leu	Gly	Asp	Val	Leu	Thr	Val	Thr	Ser	Glu	Val	Gln
		100						105					110		
Gln	Leu	Asn	Gly	Lys	Ser	Gly	Val	Leu	Ser	Gln	Val	Val	Thr	Leu	Glu

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<210> 8087
<211> 121
<212> PRT
<213> Enterobacter cloacae
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<210> 8088
<211> 207
<212> PRT
<213> Enterobacter cloacae
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<400> 8088															
Ser	Ala	Phe	Ile	Ser	Leu	Met	Ala	Cys	Leu	Thr	Gln	Val	Leu	Phe	Ile
1				5					10					15	
Val	Val	Ile	Arg	Leu	Ser	Phe	Cys	Ala	Gln	His	Ser	Glu	Lys	His	Arg
			20				25						30		
Lys	Asn	Cys	Cys	Tyr	Leu	Thr	Phe	Lys	Ile	Glu	Cys	Lys	Glu	Asn	Asn
		35					40					45			
Phe	Leu	Phe	Glu	Val	Ala	Met	Leu	Asp	Lys	Ile	Asp	Arg	Lys	Leu	Leu
	50					55					60				
Ser	Leu	Leu	Gln	Ser	Asp	Cys	Thr	Leu	Ser	Leu	Gln	Ala	Leu	Ala	Asp
65					70					75				80	
Ala	Val	Asn	Leu	Thr	Thr	Thr	Pro	Cys	Trp	Lys	Arg	Leu	Lys	Lys	Leu
				85					90					95	
Glu	Asp	Asp	Gly	Ile	Leu	Leu	Gly	Arg	Val	Ala	Leu	Leu	Asp	Pro	Glu
			100				105						110		
Lys	Leu	Gly	Leu	Gly	Leu	Thr	Ala	Phe	Val	Leu	Ile	Lys	Thr	Gln	His
		115					120					125			
His	Ser	Ser	Glu	Trp	Tyr	Cys	Arg	Phe	Val	Thr	Gln	Val	Ser	Asp	Met
	130					135					140				
Pro	Glu	Val	Leu	Gly	Phe	Trp	Arg	Met	Ala	Gly	Glu	Tyr	Asp	Tyr	Leu
145					150					155				160	
Met	Arg	Val	Gln	Val	Ala	Asp	Met	Lys	Arg	Tyr	Asp	Asp	Phe	Tyr	Lys
				165					170					175	
Arg	Leu	Val	Asn	Ser	Val	Pro	Gly	Leu	Ser	Asp	Val	Thr	Ser	Ser	Phe
			180					185					190		

Ala Met Glu Gln Ile Lys Tyr Thr Thr Ala Leu Pro Ile Glu
 195 200 205

<210> 8089

<211> 595

<212> PRT

<213> Enterobacter cloacae

<400> 8089

Leu Leu Lys Ile Pro Ser Gly Lys Asp Arg Val Arg Leu Phe Ala Gln
 1 5 10 15
 Leu Ser Trp Tyr Phe Arg Arg Glu Trp Gln Arg Tyr Leu Gly Ala Val
 20 25 30
 Ala Leu Leu Ile Ile Ile Ala Ile Leu Gln Leu Phe Pro Lys Val
 35 40 45
 Val Gly Tyr Val Val Asp Gly Val Thr Glu Gln His Tyr Thr Ala Ala
 50 55 60
 Arg Val Met Met Trp Val Gly Thr Leu Val Leu Thr Ala Val Val Val
 65 70 75 80
 Tyr Leu Leu Arg Tyr Val Trp Arg Val Leu Leu Phe Gly Ala Ser Tyr
 85 90 95
 Gln Leu Ala Val Glu Leu Arg Glu Asp Phe Tyr Arg Gln Leu Ser Arg
 100 105 110
 Gln His Pro Glu Phe Tyr Leu Arg His Arg Thr Gly Asp Leu Ile Ala
 115 120 125
 Arg Ala Thr Asn Asp Val Asp Arg Val Val Phe Ala Ala Gly Glu Gly
 130 135 140
 Val Leu Thr Leu Val Asp Ser Leu Val Met Gly Cys Ala Val Leu Ile
 145 150 155 160
 Val Met Ser Thr Gln Ile Ser Trp Glu Leu Thr Leu Leu Ala Leu Leu
 165 170 175
 Pro Met Pro Leu Met Ala Leu Ala Ile Asn Arg Tyr Gly Glu Gln Leu
 180 185 190
 His Glu Arg Phe Lys Leu Ala Gln Ala Ala Phe Ser Ser Leu Asn Asp
 195 200 205
 Arg Thr Gln Glu Ser Met Thr Ser Ile Arg Met Ile Lys Ala Phe Gly
 210 215 220
 Leu Glu Asp Arg Gln Ser Ala Leu Phe Ala Ala Asp Ala Asp Thr
 225 230 235 240
 Gly Ala Lys Asn Met Arg Val Ala Arg Ile Asp Ala Arg Phe Asp Pro
 245 250 255
 Thr Ile Tyr Ile Ala Ile Gly Met Ala Asn Leu Leu Ala Val Gly Gly
 260 265 270
 Gly Ser Trp Met Val Val Arg Gly Thr Met Thr Leu Gly Gln Leu Thr
 275 280 285
 Ser Phe Ala Met Tyr Leu Gly Leu Met Ile Trp Pro Met Leu Ala Leu
 290 295 300
 Ala Trp Met Phe Asn Ile Val Glu Arg Gly Ser Ala Ala Tyr Ser Arg
 305 310 315 320
 Ile Arg Ala Met Leu Ala Glu Val Pro Val Val Asn Asp Gly Ser Glu
 325 330 335
 Pro Val Pro Glu Gly Pro Gly Ile Leu Lys Ala Asp Ile Arg Ala Phe
 340 345 350
 Ile Tyr Pro Gln Thr Glu His Pro Val Leu Glu Asn Val Ser Phe Thr
 355 360 365
 Leu Arg Pro Gly Gln Met Leu Gly Ile Cys Gly Pro Thr Gly Ser Gly
 370 375 380
 Lys Ser Thr Ile Leu Ser Leu Ile Gln Arg His Phe Asp Val Ser Glu
 385 390 395 400
 Gly Asp Ile Arg Phe His Asp Ile Pro Leu Pro Arg Leu Leu Leu Asp
 405 410 415

Asp Trp Arg Ser Arg Leu Ala Val Val Ser Gln Thr Pro Phe Leu Phe
 420 425 430
 Ser Asp Thr Ile Ala Asn Asn Ile Ala Leu Gly Cys Pro Thr Ala Thr
 435 440 445
 Gln Asp Gln Ile Glu His Val Ala Arg Leu Ala Ser Val His Glu Asp
 450 455 460
 Ile Leu Arg Leu Pro Gln Gly Tyr Asp Thr Glu Val Gly Glu Arg Gly
 465 470 475 480
 Val Met Leu Ser Gly Gly Gln Lys Gln Arg Ile Ser Ile Ala Arg Ala
 485 490 495
 Leu Leu Leu Asp Ala Glu Ile Leu Ile Leu Asp Asp Ala Leu Ser Ala
 500 505 510
 Val Asp Gly Arg Thr Glu His Gln Ile Leu His Asn Leu Arg Gln Trp
 515 520 525
 Gly Glu Gly Arg Thr Val Ile Ile Ser Ala His Arg Leu Ser Ala Leu
 530 535 540
 Thr Glu Ala Ser Glu Ile Leu Val Leu Gln His Gly His Ile Ala Gln
 545 550 555 560
 Arg Gly Gln His Glu Gln Leu Ala Gly Gln Thr Gly Trp Tyr Arg Asp
 565 570 575
 Met Tyr Arg Tyr Gln Gln Leu Glu Ala Ala Leu Asp Glu Glu Val Ala
 580 585 590
 Asp Ala
 595

<210> 8090

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 8090

Asn Asp Ile Gly Trp Asp Arg Ser Arg Arg Cys Ile Asp Asp Lys Glu
 1 5 10 15
 Thr Ser Met Lys Leu Val Pro Met Leu Ser Gly Val Ala Met Ala Val
 20 25 30
 Ala Leu Ser Ala Cys Ala Asp Lys Ser Ala Asp Val Ala Val Pro Thr
 35 40 45
 Ala Thr Pro Asn Gly Ile Asn Thr Leu Ser Gln Gln Ala Ile Arg Gln
 50 55 60
 Pro Asn Val Ser Gly Thr Ile Trp Ile Lys Gln Lys Val Ala Leu Pro
 65 70 75 80
 Pro Asp Ala Val Leu Thr Val Thr Leu Ser Asp Ala Ser Leu Ala Asp
 85 90 95
 Ala Pro Ser Lys Val Leu Ala Gln Arg Ala Val Arg Thr Glu Gly Lys
 100 105 110
 Gln Ala Pro Phe Ser Phe Val Leu Pro Tyr Asn Pro Ser Asp Val Gln
 115 120 125
 Pro Asn Ala Arg Ile Leu Leu Ser Ala Ala Val Thr Ile Asn Asp Lys
 130 135 140
 Leu Val Phe Ile Thr Asp Thr Val Gln Glu Ala Val Asn Lys Gly Gly
 145 150 155 160
 Thr Lys Ile Asp Leu Thr Leu Val Pro Val Gln Gln Thr Glu Val Pro
 165 170 175
 Val Ala Thr Gln Thr Asn Gln Pro Thr Leu Pro Thr Pro Pro Thr Gln
 180 185 190
 Met

<210> 8091

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 8091

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
 50 55 60
 Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
 65 70 75 80
 Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Ile
 85 90 95
 Ala Ser Ala Val Lys Ser Arg Ala Val Glu Gln Gly Ala Ser Val Leu
 100 105 110
 Ile Ser Met Val Glu Gln Pro Ala Gln Cys Gln Ala Ala Leu Gln Glu
 115 120 125
 Leu Leu Ala Gln Arg Val Glu Ala Leu Leu Val Asn Val Pro Leu Glu
 130 135 140
 Asp Ala Leu Ala Glu Met Leu Gln Glu Met Ala Ser Pro Thr Pro Val
 145 150 155 160
 Leu Phe Leu Asp Val Ser Pro Thr Ala Arg Val Asn Ser Leu Val Phe
 165 170 175
 Asn Ala Glu Gln Gly Ala Ala Leu Gly Ala Glu His Leu Leu Ser Leu
 180 185 190
 Gly His Gln Arg Ile Ala Leu Leu Ala Gly Pro Glu Ser Ser Val Ser
 195 200 205
 Ala Arg Ala Arg Leu Ala Gly Trp Lys Thr Thr Leu Ala Gln Ala Gly
 210 215 220
 Val Glu Ala Phe Ala Val Ala Gln Gly Asp Trp Ser Ala Ala Ser Gly
 225 230 235 240
 Tyr Glu Lys Gly His Gln Leu Leu Ala Gly Ala Gln Leu Pro Glu Ala
 245 250 255
 Ile Phe Val Ala Asn Asp Gln Met Ala Leu Gly Val Ile Arg Ala Cys
 260 265 270
 Ala Glu Lys Gly Val Ala Val Pro Gly Gln Ile Ser Val Val Gly Phe
 275 280 285
 Asp Asp Thr Ala Asp Ser Ala Trp Phe Ser Pro Pro Leu Thr Thr Val
 290 295 300
 Arg Gln Ala Phe Arg Glu Ala Gly Glu Arg Ser Val Glu Trp Leu Met
 305 310 315 320
 Ala Pro Ala His His Asp Glu Cys Trp Gln Glu Gln Leu Pro Val Thr
 325 330 335
 Leu Ile Val Arg His Ser Thr Ala Pro Arg Ala Ala Gln Gln Ala Asp
 340 345 350
 Arg Glu Asp Leu Ala Gln Gln Leu Arg Thr Leu Ala Leu Leu Ala Glu
 355 360 365
 Lys Leu Ala Arg Ser
 370

<210> 8092

<211> 678

<212> PRT

<213> Enterobacter cloacae

<400> 8092

Cys Ala Phe Phe Val Cys Pro Asp Leu Ile Cys Ala Ser Leu Cys Glu
 1 5 10 15
 Leu Trp Ala Asp Asn Cys Pro Val Phe Leu Ser Gln Tyr Ala Phe Thr

			20					25					30			
Arg	Asp	Gly	Gln	Asp	Phe	Pro	Ser	Ala	Ser	Gly	Asn	Gln	Ser	Pro	Thr	
		35					40					45				
Ala	Glu	Cys	Cys	Tyr	Thr	Met	Met	Asp	Ser	Leu	Arg	Thr	Ala	Ala	Asn	
	50					55					60					
Ser	Leu	Val	Leu	Lys	Ile	Ile	Phe	Gly	Ile	Ile	Ile	Val	Ser	Phe	Ile	
65				70					75						80	
Leu	Thr	Gly	Val	Ser	Ser	Tyr	Leu	Ile	Gly	Gly	Gly	Ala	Asn	Tyr	Ala	
				85					90					95		
Ala	Lys	Val	Asn	Gly	Gln	Glu	Ile	Ser	Arg	Gly	Gln	Phe	Glu	Asn	Ala	
			100					105					110			
Phe	Ala	Gly	Glu	Arg	Asn	Arg	Met	Gln	Gln	Gln	Leu	Gly	Asp	Gln	Tyr	
		115					120					125				
Ser	Glu	Leu	Ala	Ala	Asn	Glu	Gly	Tyr	Met	Lys	Asn	Leu	Arg	Gln	Gln	
	130					135				140						
Thr	Leu	Asn	Arg	Leu	Ile	Asp	Glu	Ala	Leu	Leu	Asp	Gln	Tyr	Ala	Lys	
145					150					155					160	
Ser	Leu	Gly	Leu	Gly	Ile	Ser	Asp	Glu	Gln	Val	Lys	Lys	Ala	Ile	Phe	
				165					170					175		
Ser	Thr	Gln	Ala	Phe	Gln	Ser	Asn	Gly	Lys	Phe	Asp	Asn	Ala	Arg	Tyr	
			180					185					190			
Asn	Ser	Ile	Val	Asn	Gln	Met	Gly	Met	Thr	Ala	Asp	Gln	Tyr	Ala	Gln	
		195					200					205				
Ala	Leu	Arg	Asn	Gln	Leu	Thr	Thr	Gln	Gln	Leu	Ile	Asn	Ala	Val	Val	
	210					215					220					
Gly	Thr	Asp	Phe	Met	Leu	Lys	Gly	Glu	Thr	Glu	Lys	Leu	Ala	Ala	Leu	
225				230						235					240	
Val	Ala	Gln	Gln	Arg	Val	Val	Arg	Glu	Ala	Thr	Ile	Asp	Val	Asn	Ala	
				245					250					255		
Leu	Ala	Ala	Lys	Gln	Gln	Val	Ser	Asp	Ala	Glu	Val	Asn	Ala	Tyr	Tyr	
			260					265					270			
Glu	Gln	Asn	Lys	Asn	Asn	Phe	Ile	Ser	Pro	Glu	Gln	Phe	Arg	Val	Ser	
		275					280					285				
Tyr	Ile	Lys	Leu	Asp	Ala	Ala	Ala	Met	Gln	Glu	Asn	Ala	Thr	Asp	Ala	
	290				295						300					
Glu	Ile	Gln	Ser	Tyr	Tyr	Asp	Gln	His	Gln	Asp	Gln	Phe	Thr	Gln	Pro	
305				310						315					320	
Gln	Arg	Asn	Arg	Tyr	Ser	Val	Ile	Gln	Thr	Lys	Thr	Glu	Ala	Glu	Ala	
				325					330					335		
Lys	Ala	Val	Leu	Asp	Glu	Leu	Asn	Lys	Gly	Ala	Asp	Phe	Ala	Thr	Leu	
			340					345					350			
Ala	Lys	Ala	Lys	Ser	Thr	Asp	Ile	Ser	Ala	Lys	Asn	Gly	Gly	Asp		
		355					360				365					
Met	Gly	Trp	Leu	Glu	Glu	Ser	Thr	Thr	Pro	Asp	Glu	Leu	Lys	Asn	Ala	
	370					375					380					
Gly	Leu	Lys	Glu	Lys	Gly	Gln	Leu	Ser	Gly	Val	Ile	Lys	Ser	Ser	Val	
385				390						395					400	
Gly	Phe	Leu	Val	Ala	Arg	Leu	Asp	Asp	Val	Val	Ala	Ala	Lys	Thr	Lys	
				405					410					415		
Pro	Leu	Thr	Asp	Val	Arg	Asp	Asp	Ile	Ala	Ala	Lys	Val	Lys	Gln	Glu	
			420					425					430			
Lys	Ala	Leu	Asp	Ala	Phe	Tyr	Ala	Leu	Gln	Gln	Lys	Val	Ser	Asp	Ala	
		435					440					445				
Ala	Ser	Asn	Asp	Asn	Glu	Ser	Leu	Ala	Gly	Ala	Glu	Gln	Ala	Ala	Gly	
	450					455					460					
Val	Lys	Ala	Val	Glu	Thr	Gly	Trp	Phe	Ser	His	Glu	Asn	Leu	Pro	Glu	
465				470						475					480	
Glu	Leu	Asn	Phe	Lys	Pro	Val	Ser	Asp	Ala	Ile	Phe	Asn	Gly	Gly	Leu	
				485					490					495		
Val	Gly	Glu	Asn	Gly	Thr	Pro	Gly	Ser	Asn	Ser	Asp	Ile	Ile	Thr	Val	
			500					505					510			

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<210> 8093
<211> 682
<212> PRT
<213> Enterobacter cloacae
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Phe 1	Trp	Met	Met	Arg 5	Cys	Pro	Arg	Leu	Thr 10	Gly	Val	Leu	Asn	Ile 15	Lys
Phe	Cys	Ile	Thr 20	Phe	Ala	Ser	Gly	Glu 25	Arg	Gly	Ala	Arg	Ser 30	Ser	Leu
Ala	Arg	Thr 35	Val	Cys	Arg	Arg	Leu 40	Pro	Lys	Pro	Val	Lys 45	Phe	Trp	Cys
Phe	Ser 50	Thr	Gly	Ile	Leu	Pro 55	Ser	Val	Val	Ser	Met 60	Ser	Ser	Ser	Pro
Gly 65	Arg	Pro	Ala	Gly 70	Ile	Gly	Ile	Cys	Thr 75	Ala	Ile	Asn	Ser	Leu	Lys 80
Pro	Arg	Trp	Met 85	Arg	Arg	Trp	Pro	Met	Arg 90	Lys	Phe	Gly	Gln 95	Met	Trp
Pro	Thr	Leu	Lys 100	Arg	Leu	Leu	Ala	Tyr 105	Gly	Ser	Pro	Trp	Arg 110	Lys	Pro
Leu	Ser	Ile 115	Ala	Val	Leu	Leu	Leu 120	Trp	Ile	Ala	Ala	Ile 125	Ala	Glu	Val
Thr	Gly 130	Pro	Leu	Leu	Ile	Ser 135	Tyr	Phe	Ile	Asp	Asn 140	Met	Val	Ala	Lys
Ser 145	Tyr	Leu	Pro	Leu	Gly 150	Leu	Val	Ala	Gly	Leu	Gly 155	Val	Ala	Tyr	Val 160
Gly	Leu	Gln	Leu	Thr 165	Ala	Ala	Gly	Leu	His 170	Tyr	Ala	Gln	Ser	Leu 175	Leu
Phe	Asn	Arg	Ala 180	Ala	Val	Gly	Val	Val 185	Gln	Gln	Leu	Arg	Thr 190	Asp	Val
Met	Asp	Ala 195	Ala	Leu	Arg	Gln	Pro 200	Leu	Ser	Glu	Phe	Asn 205	Thr	Gln	Pro
Val	Gly 210	Gln	Val	Ile	Ser	Arg	Val 215	Thr	Asn	Asp	Thr 220	Glu	Val	Ile	Arg
Asp 225	Leu	Tyr	Val	Thr	Val 230	Val	Ala	Thr	Val	Leu	Arg 235	Ser	Ala	Ala	Leu 240
Ile	Gly	Ala	Met 245	Leu	Val	Ala	Met	Phe	Ser 250	Leu	Asp	Trp	Arg	Met 255	Ala

Leu Val Ala Ile Thr Ile Phe Pro Ala Val Leu Ile Val Met Val Ile
 260 265 270
 Tyr Gln Arg Tyr Ser Thr Pro Ile Val Arg Arg Val Arg Ala Tyr Leu
 275 280 285
 Ala Asp Ile Asn Asp Gly Phe Asn Glu Val Ile Asn Gly Met Ser Val
 290 295 300
 Ile Gln Gln Phe Arg Gln Gln Ala Arg Phe Gly Glu Arg Met Gly Glu
 305 310 315 320
 Ala Ser Arg Ser His Tyr Met Ala Arg Met Gln Thr Leu Arg Leu Asp
 325 330 335
 Gly Phe Leu Leu Arg Pro Leu Leu Ser Leu Phe Ser Ala Leu Val Leu
 340 345 350
 Cys Gly Leu Leu Met Leu Phe Gly Leu Thr Thr Arg Gly Thr Ile Glu
 355 360 365
 Val Gly Val Leu Tyr Ala Phe Ile Ser Tyr Leu Gly Arg Leu Asn Glu
 370 375 380
 Pro Leu Ile Glu Leu Thr Thr Gln Gln Ser Met Leu Gln Gln Ala Val
 385 390 395 400
 Val Ala Gly Glu Arg Val Phe Glu Leu Met Asp Arg Pro Arg Gln Thr
 405 410 415
 Tyr Gly Asp Asp Glu Arg Pro Leu Glu Ser Gly Ser Ile Ala Phe Asp
 420 425 430
 His Val Ser Phe Ala Tyr Arg Asp Asp Gln Leu Val Leu Gln Asp Ile
 435 440 445
 Asn Leu Glu Val Pro Ser Arg Gly Phe Val Ala Leu Val Gly His Thr
 450 455 460
 Gly Ser Gly Lys Ser Thr Leu Ala Ser Leu Leu Met Gly Tyr Tyr Pro
 465 470 475 480
 Leu Thr Gln Gly Glu Ile Arg Leu Asp Gly Arg Pro Leu Ala Ser Leu
 485 490 495
 Ser His Asn Ala Leu Arg Lys Gly Val Ala Met Val Gln Gln Asp Pro
 500 505 510
 Val Val Leu Ala Asp Thr Phe Tyr Ala Asn Val Thr Leu Gly Arg Pro
 515 520 525
 Phe Thr Pro Glu Gln Val Trp Glu Val Leu Glu Thr Val Gln Leu Ala
 530 535 540
 Asp Leu Ala Arg Gly Leu Ser Glu Gly Ile Asn Thr Arg Leu Gly Glu
 545 550 555 560
 Gln Gly Asn Asn Leu Ser Val Gly Gln Lys Gln Leu Leu Ala Leu Ala
 565 570 575
 Arg Val Leu Ile Glu Thr Pro Gln Val Leu Ile Leu Asp Glu Ala Thr
 580 585 590
 Ala Ser Ile Asp Ser Gly Thr Glu Gln Ala Ile Gln Gln Ala Leu Ala
 595 600 605
 Ala Val Arg Asp His Thr Thr Leu Val Val Ile Ala His Arg Leu Ser
 610 615 620
 Thr Ile Val Asp Ala Asp Thr Ile Leu Val Leu His Arg Gly Gln Ala
 625 630 635 640
 Val Glu Arg Gly Thr His Arg Ala Leu Leu Glu Ala Lys Gly Arg Tyr
 645 650 655
 Trp Gln Met Tyr Gln Leu Gln Leu Ala Gly Asp Glu Leu Ala Ala Ser
 660 665 670
 Val Arg Glu Glu Glu Ser Leu Ser Ala
 675 680

<210> 8094

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 8094

Arg	Ser	Gly	Val	Val	Ser	Asn	Ser	Trp	His	Thr	Val	Ile	Gly	Ile	Glu
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Lys	Met	Lys	Lys	Ala	Thr	Met	Lys	Thr	Gly	Leu	Gly	Ser	Leu	Ala	Leu
			20					25					30		
Leu	Pro	Gly	Leu	Ala	Met	Ala	Ala	Pro	Ala	Val	Ala	Asp	Lys	Ala	Asp
		35					40					45			
Asn	Ala	Phe	Met	Met	Ile	Cys	Thr	Ala	Leu	Val	Leu	Phe	Met	Thr	Ile
	50					55					60				
Pro	Gly	Ile	Ala	Leu	Phe	Tyr	Gly	Gly	Leu	Ile	Arg	Gly	Lys	Asn	Val
65					70					75					80
Leu	Ser	Met	Leu	Thr	Gln	Val	Ala	Val	Thr	Phe	Ala	Leu	Val	Cys	Val
				85					90					95	
Leu	Trp	Val	Val	Tyr	Gly	Tyr	Ser	Leu	Ala	Phe	Gly	Glu	Gly	Asn	Ala
			100					105					110		
Phe	Phe	Gly	Asn	Val	Asn	Trp	Ala	Met	Leu	Lys	Asn	Ile	Glu	Leu	Thr
		115					120					125			
Ala	Val	Met	Gly	Ser	Phe	Tyr	Gln	Tyr	Ile	His	Val	Ala	Phe	Gln	Gly
		130					135				140				
Ser	Phe	Ala	Cys	Ile	Thr	Val	Gly	Leu	Ile	Val	Gly	Ala	Leu	Ala	Glu
145					150					155					160
Arg	Ile	Arg	Phe	Ser	Ala	Val	Leu	Ile	Phe	Val	Val	Val	Trp	Leu	Thr
				165					170					175	
Leu	Ser	Tyr	Ile	Pro	Ile	Ala	His	Met	Val	Trp	Gly	Gly	Gly	Leu	Leu
			180					185					190		
Ala	Ser	His	Gly	Ala	Leu	Asp	Phe	Ala	Gly	Gly	Thr	Val	Val	His	Ile
		195					200					205			
Asn	Ala	Ala	Val	Ala	Gly	Leu	Val	Gly	Ala	Tyr	Leu	Ile	Gly	Lys	Arg
	210					215					220				
Val	Gly	Phe	Gly	Lys	Glu	Ala	Phe	Lys	Pro	His	Asn	Leu	Pro	Met	Val
225					230					235					240
Phe	Thr	Gly	Thr	Ala	Ile	Leu	Tyr	Phe	Gly	Trp	Phe	Gly	Phe	Asn	Ala
				245					250					255	
Gly	Ser	Ala	Ser	Ala	Ala	Asn	Glu	Ile	Ala	Ala	Leu	Ala	Phe	Val	Asn
			260					265					270		
Thr	Val	Val	Ala	Thr	Ala	Gly	Ala	Ile	Leu	Ser	Trp	Val	Phe	Gly	Glu
		275					280					285			
Trp	Ala	Val	Arg	Gly	Lys	Pro	Ser	Leu	Leu	Gly	Ala	Cys	Ser	Gly	Ala
	290					295					300				
Ile	Ala	Gly	Leu	Val	Gly	Ile	Thr	Pro	Ala	Cys	Gly	Tyr	Val	Gly	Val
305					310					315					320
Gly	Gly	Ala	Leu	Leu	Ile	Gly	Ile	Val	Ala	Gly	Leu	Ala	Gly	Leu	Trp
			325					330						335	
Gly	Val	Thr	Ala	Leu	Lys	Arg	Val	Leu	Arg	Val	Asp	Asp	Pro	Cys	Asp
			340					345					350		
Val	Phe	Gly	Val	His	Gly	Val	Cys	Gly	Ile	Val	Gly	Cys	Ile	Met	Thr
		355					360					365			
Gly	Ile	Phe	Ala	Ala	Gln	Ser	Leu	Gly	Gly	Val	Gly	Tyr	Ala	Glu	Gly
	370					375					380				
Val	Thr	Met	Gly	His	Gln	Val	Leu	Val	Gln	Leu	Glu	Ser	Ile	Ala	Ile
385					390					395					400
Thr	Val	Val	Trp	Ser	Gly	Val	Val	Ala	Phe	Ile	Gly	Tyr	Lys	Leu	Ala
				405					410					415	
Asp	Met	Thr	Val	Gly	Leu	Arg	Val	Pro	Glu	Glu	Gln	Glu	Arg	Glu	Gly
			420					425					430		
Leu	Asp	Val	Asn	Ser	His	Gly	Glu	Asn	Ala	Tyr	Asn	Ala			
		435					440					445			

<210> 8095

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8095

Lys Leu Asp Ile Asn His Ser Ala Ile Phe Thr Glu Asp Gly Thr Trp
 1 5 10 15
 Tyr Phe Gly Glu Glu Lys Met Val Arg Arg Leu Val Gln Leu Tyr Val
 20 25 30
 Gly Leu Gly Leu Tyr Gly Leu Ser Thr Ala Met Phe Ile Arg Ser Asp
 35 40 45
 Leu Gly Val Asp Pro Trp Asp Val Phe His Leu Gly Val Ala Ile Gln
 50 55 60
 Thr Gly Met Ser Ile Gly Thr Val Ile Ile Leu Thr Gly Ala Ala Val
 65 70 75 80
 Leu Leu Leu Trp Ile Pro Leu Arg Gln Leu Pro Gly Leu Gly Thr Ile
 85 90 95
 Ser Asn Val Ile Cys Ile Gly Leu Ala Ala Asp Ala Ser Met Ala Leu
 100 105 110
 Ile Pro Glu Leu Thr Ser Leu Pro Val Arg Ile Thr Leu Leu Val Ser
 115 120 125
 Gly Ile Val Val Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly
 130 135 140
 Phe Gly Ala Gly Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg
 145 150 155 160
 Leu Gly Trp Ser Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val
 165 170 175
 Leu Ile Val Gly Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val
 180 185 190
 Leu Tyr Ala Leu Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp
 195 200 205
 Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile
 210 215 220
 Val
 225

<210> 8096

<211> 1037

<212> PRT

<213> Enterobacter cloacae

<400> 8096

Ala Leu Arg Lys Glu Val Asp Met Ser Ser Thr Leu Pro Leu Thr Leu
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 Ser Ala Leu Leu Ala Lys Lys Lys Lys Lys Lys Gly Val Thr Gln
 20 25 30
 Trp Asn Arg Leu Ala Ala His Ala Pro Phe His Ser Trp Arg Asp Glu
 35 40 45
 Thr Phe Ala Arg Glu Asp Lys Pro Ser Arg Ser Lys Arg Leu Leu Asn
 50 55 60
 Gly Ile Trp Arg Phe Ser Phe Phe Pro Ala Pro Glu Gln Val Pro Glu
 65 70 75 80
 Ala Trp Ile Thr Asp Asp Leu Ala Asp Ala Val Glu Met Pro Val Pro
 85 90 95
 Ser Asn Trp Gln Met Gln Gly Phe Asp Thr Pro Ile Tyr Thr Asn Val
 100 105 110
 Thr Tyr Pro Ile Asn Val Asn Pro Pro Tyr Leu Pro Ala Glu Asn Pro
 115 120 125
 Thr Gly Cys Tyr Ser Leu Thr Phe Glu Met Asp Asp Ala Trp Met Cys
 130 135 140
 Ser Gly Gln Thr Arg Ile Ile Phe Asp Gly Val Asn Ser Ala Phe His
 145 150 155 160
 Leu Trp Cys Asn Gly Gln Trp Met Gly Tyr Ser Gln Asp Ser Arg Leu
 165 170 175

Pro	Ala	Glu	Phe	Asp	Leu	Ser	Ala	Val	Leu	Arg	Pro	Gly	Gln	Asn	Arg
			180					185					190		
Leu	Ala	Val	Met	Val	Leu	Arg	Trp	Cys	Asp	Gly	Ser	Tyr	Leu	Glu	Asp
		195					200					205			
Gln	Asp	Met	Trp	Arg	Met	Ser	Gly	Ile	Phe	Arg	Asp	Val	Ser	Leu	Leu
	210					215					220				
His	Lys	Pro	Glu	Thr	Arg	Ile	Ala	Asp	Tyr	Gln	Ile	Val	Thr	Asp	Leu
225					230					235					240
Asn	Ala	Glu	Cys	Asp	Arg	Ala	Ile	Leu	Arg	Val	Asp	Val	Ala	Leu	Glu
				245					250					255	
Gly	Thr	Arg	Tyr	Ala	Glu	Cys	Glu	Val	Ala	Phe	Thr	Leu	Trp	Arg	Asn
			260					265					270		
Gly	Glu	Ala	Cys	Ala	Gln	Thr	Thr	Gln	Gln	Pro	Gly	Ser	Ala	Ile	Val
		275					280					285			
Asp	Glu	Arg	Gly	Ser	Trp	Ala	Glu	Arg	Leu	Arg	Val	Ala	Ile	Pro	Val
	290					295					300				
Asn	Ala	Pro	Ala	Leu	Trp	Ser	Ala	Glu	Thr	Pro	Glu	Cys	Tyr	Arg	Leu
305					310					315					320
Thr	Ile	Ser	Leu	Arg	Asp	Ala	Gln	Gly	Asn	Val	Leu	Glu	Thr	Glu	Ala
				325					330					335	
Cys	Asp	Val	Gly	Phe	Arg	Arg	Val	Glu	Ile	Ser	Asn	Gly	Gln	Leu	Lys
			340					345					350		
Leu	Asn	Gly	Lys	Pro	Leu	Leu	Ile	Arg	Gly	Val	Asn	Arg	His	Glu	His
		355					360					365			
His	Pro	Glu	Lys	Gly	Gln	Val	Met	Asp	Glu	Ala	Thr	Met	Arg	Arg	Asp
	370					375						380			
Ile	Glu	Leu	Met	Lys	Gln	His	Asn	Phe	Asn	Ala	Val	Arg	Cys	Ser	His
385					390					395					400
Tyr	Pro	Asn	His	Pro	Leu	Trp	Tyr	Thr	Leu	Cys	Asp	Arg	Tyr	Gly	Leu
				405					410					415	
Tyr	Val	Val	Asp	Glu	Ala	Asn	Ile	Glu	Thr	His	Gly	Met	Val	Pro	Met
			420					425					430		
Ser	Arg	Leu	Ala	Asp	Asp	Pro	Arg	Trp	Leu	Pro	Ala	Met	Ser	Glu	Arg
		435				440						445			
Val	Thr	Arg	Met	Val	Gln	Arg	Asp	Arg	Asn	His	Pro	Ser	Ile	Ile	Ile
	450					455					460				
Trp	Ser	Leu	Gly	Asn	Glu	Ser	Gly	His	Gly	Ala	Asn	His	Asp	Ala	Leu
465					470					475					480
Tyr	Arg	Trp	Leu	Lys	Thr	Thr	Asp	Pro	Thr	Arg	Pro	Val	Gln	Tyr	Glu
				485					490					495	
Gly	Gly	Gly	Ala	Ser	Thr	Ala	Ala	Thr	Asp	Ile	Val	Cys	Pro	Met	Tyr
			500					505					510		
Ala	Arg	Val	Asp	Gln	Asp	Gln	Pro	Phe	Pro	Ala	Val	Pro	Lys	Trp	Ser
		515					520					525			
Ile	Lys	Lys	Trp	Ile	Gly	Met	Pro	Asp	Glu	Thr	Arg	Pro	Leu	Ile	Leu
	530					535					540				
Cys	Glu	Tyr	Ala	His	Ala	Met	Gly	Asn	Ser	Phe	Gly	Gly	Phe	Ala	Ser
545					550					555					560
Tyr	Trp	Gln	Ala	Phe	Arg	Ser	His	Pro	Arg	Leu	Gln	Gly	Gly	Phe	Val
				565					570					575	
Trp	Asp	Trp	Val	Asp	Gln	Ala	Leu	Thr	Lys	Lys	Ala	Glu	Asp	Gly	Thr
			580					585					590		
Val	Phe	Trp	Ala	Tyr	Gly	Gly	Asp	Phe	Gly	Asp	Lys	Pro	Asn	Asp	Arg
		595					600					605			
Gln	Phe	Cys	Leu	Asn	Gly	Leu	Val	Phe	Pro	Asp	Arg	Thr	Pro	His	Pro
	610					615					620				
Ala	Leu	Tyr	Glu	Ala	Gln	Arg	Ala	Gln	Gln	Phe	Phe	Thr	Phe	Thr	Leu
625					630					635					640
Val	Ser	Thr	Ala	Pro	Leu	Val	Val	Glu	Ile	Gln	Ser	Asp	Tyr	Leu	Phe
				645					650					655	
Arg	His	Thr	Asp	Asn	Glu	Tyr	Leu	Arg	Trp	Ser	Val	Ala	Arg	Asp	Gly


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<210> 8097
<211> 174
<212> PRT
<213> Enterobacter cloacae
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<400> 8097															
Pro	Trp	Lys	Pro	Arg	Val	Phe	Arg	Gly	Lys	Gly	Lys	Leu	Thr	Tyr	Thr
1				5					10					15	
Gly	Ser	Leu	Gly	Glu	Val	Met	Gln	Glu	Ser	Ile	Gln	Ala	Ala	Leu	Thr
			20					25					30		
Val	Val	Arg	Ala	Arg	Ala	Glu	Lys	Leu	Gly	Ile	Asn	Pro	Asp	Phe	Tyr
		35					40					45			
Glu	Lys	Arg	Asp	Ile	His	Val	His	Val	Pro	Glu	Gly	Ala	Thr	Pro	Lys

50	55	60
Asp Gly Pro Ser Ala Gly Ile Ala Met Cys Thr Ala Leu Val Ser Cys		
65	70	75
Leu Thr Gly Asn Pro Val Arg Ala Asp Val Ala Met Thr Gly Glu Ile		80
	85	90
Thr Leu Arg Gly Gln Val Leu Pro Ile Gly Gly Leu Lys Glu Lys Leu		95
	100	105
Leu Ala Ala His Arg Gly Gly Ile Lys Thr Val Leu Ile Pro Tyr Glu		110
	115	120
Asn Lys Arg Asp Leu Glu Glu Ile Pro Asp Asn Val Ile Ala Asp Leu		125
	130	135
Gln Ile His Pro Val Lys Arg Ile Glu Glu Val Leu Thr Leu Ala Leu		140
145	150	155
Gln Asn Glu Pro Ser Gly Met Gln Val Val Thr Ala Lys		160
	165	170

<210> 8098

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 8098

Gly His Ser Arg Thr Asp Ile Thr Ala Ala Arg Ser Arg Cys Glu Gly		
1	5	10
Phe Arg Cys Asp Ile Asn Tyr Lys Glu Arg Lys Arg Thr Val Asn Lys		15
	20	25
Ser Gln Leu Ile Asp Lys Ile Ala Ala Gly Ala Asp Ile Ser Lys Ala		30
	35	40
Ala Ala Gly Arg Ala Leu Asp Ala Leu Ile Ala Ser Val Thr Glu Ser		45
	50	55
Leu Gln Ala Gly Asp Asp Ile Ser Leu Val Gly Phe Gly Thr Phe Ala		60
65	70	75
Val Lys Glu Arg Ala Ala Arg Thr Gly Arg Asn Pro Gln Thr Gly Lys		80
	85	90
Glu Ile Thr Ile Ala Ala Ala Lys Val Pro Gly Phe Arg Ala Gly Lys		95
	100	105
Ala Leu Lys Asp Ala Val Asn		110
	115	120

<210> 8099

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8099

Arg Ser Ala Lys Thr Lys Gly Arg Phe Arg Gly Phe Phe His Phe Cys		
1	5	10
Asn Leu Leu Phe Val Pro Val Phe Pro Cys Gly Tyr Arg Gly Met Ala		15
	20	25
Val Asn Lys Gln Gly Glu Asn Ser Met Lys Cys Gly Ile Lys Ala Leu		30
	35	40
Leu Ile Thr Leu Ala Ile Ala Thr Ser Gly Met Ser Ala Gly Ala Leu		45
	50	55
Ala Ala Ser Pro Ser Ser Lys Ala Gln Ala Ala Gln Thr Gln Ala Asp		60
65	70	75
Ala Thr Ser Gln Gly Gln Val Lys Ala Asn Ala Thr Ala Ser Thr Lys		80
	85	90
Ala Ile Glu Asp Glu Gly Thr Arg Val Ser Ile Asn Thr Ala Ser Ala		95
	100	105
Asp Asp Leu Ala Arg Val Met Asn Gly Val Gly Leu Lys Lys Ala Gln		110
	115	120
		125

Ala Ile Val Ser Tyr Arg Glu Glu Tyr Gly Pro Phe Ile Thr Leu Asp
 130 135 140
 Asp Leu Lys Gln Val Pro Gly Met Gly Ser Ala Leu Val Glu Arg Asn
 145 150 155 160
 Leu Ala His Leu Thr Leu
 165

<210> 8100

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 8100

Lys Thr Arg Arg Val Phe Arg Asp Lys Ile Met Asn Arg Asp Tyr Val
 1 5 10 15
 Val Lys Arg Tyr Arg Thr Arg Asp Gly Lys Ile Pro Phe Glu Asp Trp
 20 25 30
 Val Ala Lys Leu Arg Arg Lys Asp Pro Glu Leu Ala Phe Arg Ile Leu
 35 40 45
 Leu Arg Ile Asp Arg Ala Glu Lys Gly Asn Phe Gly Asp Tyr Arg Tyr
 50 55 60
 Leu Arg Glu Gly Val Trp Glu Leu Lys Val Asp Ser Gly Pro Gly Tyr
 65 70 75 80
 Arg Val Tyr Phe Ala Val Gln His Arg Glu Ile Leu Leu Leu Leu Ile
 85 90 95
 Gly Gly Asp Lys Lys Ser Gln Lys Ala Asp Val Met Leu Ala Ile Asp
 100 105 110
 Tyr Trp Lys Asp His Gln Lys Asp Lys Leu His Glu Gln Lys
 115 120 125

<210> 8101

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 8101

Pro His His Ile Ser Gly Val Ile Met Ala Arg Leu Ala Ala Phe Asp
 1 5 10 15
 Met Asp Gly Thr Leu Leu Met Pro Asp His Arg Leu Gly Glu Lys Thr
 20 25 30
 Leu Lys Thr Leu Lys Arg Leu Arg Glu Arg Glu Val Thr Leu Thr Phe
 35 40 45
 Ala Thr Gly Arg His Val Leu Glu Met Arg His Leu Leu Gly Thr Phe
 50 55 60
 Ala Leu Asp Ala Phe Leu Ile Thr Gly Asn Gly Thr Arg Ile His Ser
 65 70 75 80
 Val Asp Gly Asp Val Leu His Arg Gln Asp Leu Asn Pro Glu Val Ala
 85 90 95
 Asp Ile Val Leu His Ser Thr Trp Asp Thr Gln Ala Ser Val His Val
 100 105 110
 Phe Asn Asp Glu Gly Trp Phe Thr Gly Arg Glu Ile Pro Ala Leu Leu
 115 120 125
 His Ala His Val Tyr Ser Gly Phe Lys Tyr Gln Leu Ile Asp Leu Arg
 130 135 140
 Arg Ile Pro Ala His Lys Val Thr Lys Ile Cys Phe Cys Gly Asp His
 145 150 155 160
 Asp Asp Leu Cys Arg Leu Arg Ile Gln Leu Asn Glu Ala Leu Gly Glu
 165 170 175
 Arg Ala His Leu Thr Phe Ser Ala Val Asp Cys Leu Glu Val Leu Pro
 180 185 190
 Val Gly Cys Asn Lys Gly Ser Ala Leu Ala Val Leu Ser Asp His Leu

```
<210> 8102
<211> 125
<212> PRT
<213> Enterobacter cloacae
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Leu	Arg	Pro	Leu	Pro	Asn	Ser	Asp	Trp	Arg	Gly	Tyr	Met	Lys	Leu	Val
1				5					10					15	
Thr	Val	Val	Ile	Lys	Pro	Phe	Lys	Leu	Glu	Asp	Val	Arg	Glu	Ala	Leu
			20					25					30		
Ser	Ser	Met	Gly	Ile	Gln	Gly	Leu	Thr	Val	Thr	Glu	Val	Lys	Gly	Phe
		35					40					45			
Gly	Arg	Gln	Lys	Gly	His	Ala	Glu	Leu	Tyr	Arg	Gly	Ala	Glu	Tyr	Ser
	50					55					60				
Val	Asn	Phe	Leu	Pro	Lys	Val	Lys	Ile	Asp	Val	Ala	Ile	Ala	Asp	Asp
65					70					75				80	
Gln	Leu	Asp	Glu	Val	Ile	Asp	Val	Val	Ser	Lys	Ala	Ala	Tyr	Thr	Gly
				85					90					95	
Lys	Ile	Gly	Asp	Gly	Lys	Ile	Phe	Val	Ala	Glu	Leu	Gln	Arg	Val	Ile
			100					105					110		
Arg	Ile	Arg	Thr	Gly	Glu	Ser	Asp	Glu	Ala	Ala	Leu				
		115					120					125			

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<210> 8103
<211> 373
<212> PRT
<213> Enterobacter cloacae
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Asn 1	Ala	Arg	Ala	Leu 5	Phe	Met	Asn	Lys	Val 10	Val	Leu	Tyr	Cys	Arg 15	Pro
Gly	Phe	Glu	Lys 20	Glu	Cys	Ala	Ala	Glu 25	Ile	Thr	Asp	Lys	Ala 30	Ala	Lys
Arg	Glu	Val 35	Phe	Gly	Phe	Ala	Arg 40	Val	Lys	Glu	Asn	Ala 45	Gly	Tyr	Val
Val	Phe 50	Glu	Cys	Tyr	Gln	Pro 55	Asp	Asp	Ala	Asp	Lys 60	Leu	Ala	Arg	Glu
Leu 65	Pro	Phe	Ser	Ser	Leu 70	Ile	Phe	Ala	Arg	Gln 75	Met	Phe	Val	Ala	Gly 80
Glu	Leu	Leu	Lys 85	Asp	Leu	Pro	Pro	Glu 90	Asp	Arg	Ile	Thr	Pro 95	Ile	Val
Gly	Leu	Leu	Gln 100	Gly	Val	Val	Glu	Lys 105	Gly	Gly	Asp	Leu	Arg 110	Val	Glu
Val	Ala	Asp 115	Thr	Asn	Glu	Ser	Lys 120	Glu	Leu	Met	Lys	Phe 125	Cys	Arg	Lys
Phe	Thr 130	Val	Pro	Leu	Arg	Ala	Ala 135	Leu	Arg	Asp	Ala 140	Gly	Val	Leu	Thr
Asn 145	Tyr	Glu	Thr	Pro	Lys 150	Arg	Pro	Val	Val	His 155	Ile	Phe	Phe	Ile	Ala 160

Pro Gly Cys Cys Tyr Ala Gly Tyr Ser Tyr Thr Thr Asn Asn Ser Pro
 165 170 175
 Phe Phe Met Gly Ile Pro Arg Leu Arg Phe Pro Ala Asp Ala Pro Ser
 180 185 190
 Arg Ser Thr Leu Lys Leu Glu Glu Ala Phe His Val Phe Ile Pro Ala
 195 200 205
 Asp Glu Trp Asp Glu Arg Leu Ala Asn Gly Met Tyr Ala Val Asp Leu
 210 215 220
 Gly Ala Cys Pro Gly Gly Trp Thr Tyr Gln Leu Val Lys Arg Asn Met
 225 230 235 240
 Trp Val Ser Ser Val Asp Asn Gly Pro Met Ala Gln Ser Leu Met Asp
 245 250 255
 Thr Gly Gln Val Thr Trp Leu Arg Glu Asp Gly Phe Arg Tyr Arg Pro
 260 265 270
 Asn Arg Asn Asn Ile Ser Trp Met Val Cys Asp Met Val Glu Lys Pro
 275 280 285
 Ala Lys Val Ala Ala Leu Met Ala Ser Trp Leu Val Asn Gly Trp Cys
 290 295 300
 Arg Glu Thr Ile Phe Asn Leu Lys Leu Pro Met Lys Lys Arg Tyr Glu
 305 310 315 320
 Glu Val Ser Gln Asn Leu Ala Tyr Ile Gln Gln Gln Leu Asp Glu His
 325 330 335
 Gly Ile Asn Ala Glu Ile Gln Ala Arg Gln Leu Tyr His Asp Arg Glu
 340 345 350
 Glu Val Thr Val His Ile Arg Arg Trp Trp Ala Ala Val Gly Gly Arg
 355 360 365
 Arg Asp Glu Arg
 370

<210> 8104

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 8104

Ala Gly Ser Thr Tyr Cys Ser Trp Asn Ala Ala Lys Arg Thr Gly Ser
 1 5 10 15
 Thr Val Phe Thr Val Leu Pro Phe Leu Phe Leu Ser Ser Ala Met Leu
 20 25 30
 Cys Phe Ala Pro Phe Arg Phe Ser Val Glu Val Tyr Met Ser His His
 35 40 45
 Asp Ser Val Arg Ala Gln Leu His Ala Ile Glu Ala Leu Met Arg Gln
 50 55 60
 His Gln Leu Trp Gln Asp Asn Ala Pro Gln Pro Asp Ala Phe Ala Ser
 65 70 75 80
 Thr Gln Pro Phe Cys Leu Asp Thr Leu Asp Pro Phe Glu Trp Leu Gln
 85 90 95
 Trp Val Leu Ile Pro Arg Met His Ala Leu Leu Glu Gly Gly His Ala
 100 105 110
 Leu Pro Ala Ser Phe Ala Val Ser Pro Tyr Tyr Glu Met Ala Leu Glu
 115 120 125
 Ala Thr His Pro Ala Arg Ala Met Met Leu Val Glu Leu Glu Lys Leu
 130 135 140
 Asp Ala Leu Phe Ala Gly Asp Asp Ala
 145 150

<210> 8105

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8105

His	Gln	Thr	Asn	Arg	Thr	Glu	Thr	Cys	Trp	Gly	Ala	Arg	Met	Met	Thr
1			5						10					15	
Thr	Gln	Ser	Ser	Pro	Ile	Val	Thr	Asp	Met	Lys	Val	Ile	Pro	Val	Ala
			20					25					30		
Gly	Gln	Asp	Ser	Met	Leu	Leu	Asn	Ile	Gly	Gly	Ala	His	Asn	Ala	Trp
		35					40					45			
Phe	Thr	Arg	Asn	Ile	Val	Val	Leu	Thr	Asp	Asn	Ala	Gly	Asn	Thr	Gly
	50					55					60				
Val	Gly	Glu	Ala	Pro	Gly	Gly	Glu	Val	Ile	Tyr	Gln	Thr	Leu	Val	Asp
65					70					75					80
Ala	Ile	Pro	His	Val	Val	Gly	Gln	Glu	Val	Ala	Arg	Leu	Asn	Lys	Val
				85					90					95	
Val	Gln	Arg	Val	His	Lys	Gly	Asn	His	Ser	Ala	Asp	Phe	Asp	Thr	Phe
			100					105					110		
Gly	Lys	Gly	Ala	Trp	Thr	Phe	Glu	Leu	Arg	Val	Asn	Ala	Val	Ala	Ala
		115					120					125			
Leu	Glu	Ala	Ala	Leu	Leu	Asp	Leu	Leu	Gly	Lys	Ala	Leu	Asn	Val	Pro
	130					135					140				
Val	Cys	Glu	Leu	Leu	Gly	Pro	Gly	Lys	Gln	Arg	Asp	Ala	Val	Thr	Val
145					150					155					160
Leu	Gly	Tyr	Leu	Phe	Tyr	Val	Gly	Asp	Arg	Thr	Lys	Thr	Asp	Leu	Pro
			165						170					175	
Tyr	Leu	Glu	Arg	Ser	Pro	Gly	Ser	His	Glu	Trp	Tyr	His	Leu	Arg	His
			180					185					190		
Gln	Glu	Ala	Leu	Ser	Gly	Glu	Ala	Val	Val	Arg	Leu	Ala	Glu	Ala	Ala
		195					200					205			
Gln	Asp	Arg	Tyr	Gly	Phe	Lys	Asp	Phe	Lys	Leu	Lys	Gly	Gly	Val	Leu
	210					215					220				
Pro	Gly	Glu	Gln	Glu	Ile	Asp	Ser	Val	Arg	Ala	Leu	Lys	Lys	Arg	Phe
225					230					235					240
Pro	Glu	Ala	Arg	Ile	Thr	Val	Asp	Pro	Asn	Gly	Ala	Trp	Leu	Leu	Asp
				245					250					255	
Glu	Ala	Ile	Ala	Leu	Cys	Lys	Gly	Leu	Gly	Asp	Val	Leu	Thr	Tyr	Ala
			260					265					270		
Glu	Asp	Pro	Cys	Gly	Ala	Glu	Gln	Gly	Phe	Ser	Gly	Arg	Glu	Val	Met
	275						280					285			
Ala	Glu	Phe	Arg	Arg	Ala	Thr	Gly	Leu	Pro	Val	Ala	Thr	Asn	Met	Ile
	290					295					300				
Ala	Thr	Asn	Trp	Arg	Glu	Met	Gly	His	Ala	Val	Met	Leu	Asn	Ala	Val
305					310					315					320
Asp	Ile	Pro	Leu	Ala	Asp	Pro	His	Phe	Trp	Thr	Leu	Ser	Gly	Ala	Val
				325					330					335	
Arg	Val	Ala	Gln	Leu	Cys	Asp	Asp	Trp	Gly	Leu	Thr	Trp	Gly	Cys	His
			340					345					350		
Ser	Asn	Asn	His	Phe	Asp	Ile	Ser	Leu	Ala	Met	Phe	Thr	His	Val	Gly
	355						360					365			
Ala	Ala	Ala	Pro	Gly	Asn	Pro	Thr	Ala	Ile	Asp	Thr	His	Trp	Ile	Trp
	370					375					380				
Gln	Glu	Gly	Glu	Ala	Arg	Leu	Thr	Lys	Asn	Pro	Leu	Glu	Ile	Lys	Asn
385					390					395					400
Gly	Thr	Ile	Ala	Val	Pro	Asp	Ala	Pro	Gly	Leu	Gly	Val	Glu	Leu	Asp
				405					410					415	
Trp	Asp	Gln	Ile	His	Lys	Ala	His	Glu	Ala	Tyr	Lys	Lys	Leu	Pro	Gly
			420					425					430		
Gly	Ala	Arg	Asn	Asp	Ala	Gly	Pro	Met	Gln	Tyr	Leu	Ile	Pro	Gly	Trp
		435					440					445			
Thr	Phe	Asp	Arg	Lys	Arg	Pro	Val	Phe	Gly	Arg	His				
	450					455					460				

<210> 8106

<211> 450
 <212> PRT
 <213> Enterobacter cloacae

<400> 8106

Lys	Asp	Arg	Thr	Met	Ser	Thr	Phe	Ser	Thr	Pro	Val	Val	Thr	Ser	Met
1				5					10					15	
Gln	Ile	Ile	Pro	Val	Ala	Gly	His	Asp	Ser	Met	Leu	Met	Asn	Leu	Ser
			20					25					30		
Gly	Ala	His	Ala	Pro	Phe	Phe	Thr	Arg	Asn	Ile	Val	Val	Ile	Lys	Asp
		35					40					45			
Asn	Ser	Gly	His	Thr	Gly	Val	Gly	Glu	Ile	Pro	Gly	Gly	Glu	Lys	Ile
	50					55					60				
Arg	Lys	Thr	Leu	Glu	Asp	Ala	Ile	Pro	Leu	Val	Val	Gly	Lys	Thr	Leu
65					70					75					80
Gly	Glu	Tyr	Lys	Asn	Val	Leu	Thr	Arg	Val	Arg	Thr	Thr	Phe	Ala	Asp
				85					90					95	
Arg	Asp	Ala	Gly	Gly	Arg	Gly	Leu	Gln	Thr	Phe	Asp	Leu	Arg	Thr	Thr
			100					105					110		
Ile	His	Val	Val	Thr	Gly	Ile	Glu	Ala	Ala	Met	Leu	Asp	Leu	Leu	Gly
		115					120					125			
Gln	His	Leu	Gly	Val	Asn	Val	Ala	Ser	Leu	Leu	Gly	Asp	Gly	Gln	Gln
	130					135					140				
Arg	Ser	Glu	Val	Glu	Met	Leu	Gly	Tyr	Leu	Phe	Phe	Ile	Gly	Asn	Arg
145					150					155					160
Lys	Leu	Thr	Pro	Leu	Pro	Tyr	Gln	Ser	Gln	Pro	Asp	Glu	Lys	Cys	Asp
				165					170					175	
Trp	Tyr	Arg	Val	Arg	His	Asp	Glu	Ala	Met	Thr	Pro	Asp	Ala	Val	Val
			180					185					190		
Arg	Leu	Ala	Glu	Ala	Ala	Tyr	Glu	Lys	Tyr	Gly	Phe	Asn	Asp	Phe	Lys
		195					200					205			
Leu	Lys	Gly	Gly	Val	Leu	Ala	Gly	Glu	Glu	Glu	Ala	Glu	Ala	Ile	Ala
	210					215					220				
Ala	Leu	Ala	Lys	Arg	Phe	Pro	Gln	Ala	Arg	Val	Thr	Leu	Asp	Pro	Asn
225					230					235					240
Gly	Ala	Trp	Ser	Leu	Asp	Glu	Ala	Ile	Lys	Ile	Gly	Lys	Gln	Leu	Lys
				245					250					255	
Gly	Val	Leu	Ala	Tyr	Ala	Glu	Asp	Pro	Cys	Gly	Ala	Glu	Gln	Gly	Phe
			260					265					270		
Ser	Gly	Arg	Glu	Val	Met	Ala	Glu	Phe	Arg	Arg	Ala	Thr	Gly	Leu	Pro
		275					280					285			
Thr	Ala	Thr	Asn	Met	Ile	Ala	Thr	Asp	Trp	Arg	Gln	Met	Gly	His	Thr
	290					295					300				
Leu	Ser	Leu	Gln	Ser	Val	Asp	Ile	Pro	Leu	Ala	Asp	Pro	His	Phe	Trp
305					310					315					320
Thr	Met	Gln	Gly	Ser	Val	Arg	Val	Ala	Gln	Met	Cys	His	Glu	Phe	Gly
				325					330					335	
Leu	Thr	Trp	Gly	Ser	His	Ser	Asn	Asn	His	Phe	Asp	Ile	Ser	Leu	Ala
			340					345					350		
Met	Phe	Thr	His	Val	Ala	Ala	Ala	Ala	Pro	Gly	Asn	Ile	Thr	Ala	Ile
		355					360					365			
Asp	Thr	His	Trp	Ile	Trp	Gln	Glu	Gly	Asn	Gln	Arg	Leu	Thr	Lys	Gln
	370					375					380				
Pro	Phe	Glu	Ile	Lys	Gly	Gly	Met	Val	Gln	Val	Pro	Ala	Thr	Pro	Gly
385					390					395					400
Leu	Gly	Val	Glu	Leu	Asp	Met	Asp	Gln	Val	Met	Lys	Ala	His	Glu	Leu
				405					410					415	
Tyr	Gln	Lys	His	Gly	Leu	Gly	Ala	Arg	Asp	Asp	Ala	Leu	Ala	Met	Gln
			420					425					430		
Tyr	Leu	Ile	Pro	Glu	Trp	Arg	Phe	Asp	Asn	Lys	Arg	Pro	Cys	Met	Val
		435					440					445			

Arg

450

<210> 8107

<211> 551

<212> PRT

<213> Enterobacter cloacae

<400> 8107

Leu	Leu	Arg	Phe	Ser	Met	Thr	Thr	Asn	Tyr	Ile	Phe	Val	Thr	Gly	Gly
1				5					10					15	
Val	Val	Ser	Ser	Leu	Gly	Lys	Gly	Ile	Ala	Ala	Ala	Ser	Leu	Ala	Ala
			20					25					30		
Ile	Leu	Glu	Ala	Arg	Gly	Leu	Asn	Val	Thr	Met	Met	Lys	Leu	Asp	Pro
		35					40					45			
Tyr	Ile	Asn	Val	Asp	Pro	Gly	Thr	Met	Ser	Pro	Thr	Gln	His	Gly	Glu
	50					55					60				
Val	Phe	Val	Thr	Glu	Asp	Gly	Ala	Glu	Thr	Asp	Leu	Asp	Leu	Gly	His
65				70						75					80
Tyr	Glu	Arg	Phe	Ile	Arg	Thr	Lys	Met	Thr	Arg	Arg	Asn	Asn	Phe	Thr
			85						90					95	
Thr	Gly	Arg	Ile	Tyr	Ser	Asp	Val	Leu	Arg	Lys	Glu	Arg	Arg	Gly	Asp
			100					105					110		
Tyr	Leu	Gly	Ala	Thr	Val	Gln	Val	Ile	Pro	His	Ile	Thr	Asn	Ala	Ile
	115						120					125			
Lys	Glu	Arg	Val	Leu	Ala	Gly	Gly	Glu	Gly	His	Asp	Val	Val	Leu	Val
	130					135					140				
Glu	Ile	Gly	Gly	Thr	Val	Gly	Asp	Ile	Glu	Ser	Leu	Pro	Phe	Leu	Glu
145				150					155						160
Ala	Ile	Arg	Gln	Leu	Ala	Val	Asp	Ile	Gly	Arg	Glu	His	Ala	Leu	Phe
			165						170					175	
Met	His	Leu	Thr	Leu	Val	Pro	Tyr	Met	Ala	Ala	Ala	Gly	Glu	Val	Lys
		180					185						190		
Thr	Lys	Pro	Thr	Gln	His	Ser	Val	Lys	Glu	Leu	Leu	Ser	Ile	Gly	Ile
	195						200					205			
Gln	Pro	Asp	Ile	Leu	Val	Cys	Arg	Ser	Asp	Arg	Ala	Ile	Pro	Ala	Asn
	210					215					220				
Glu	Arg	Ala	Lys	Ile	Ala	Leu	Phe	Cys	Asn	Val	Pro	Glu	Lys	Ala	Val
225				230						235					240
Ile	Ser	Met	Lys	Asp	Val	Asp	Ser	Ile	Tyr	Lys	Ile	Pro	Gly	Leu	Leu
			245						250					255	
Lys	Ser	Gln	Gly	Leu	Asp	Asp	Tyr	Ile	Cys	Lys	Arg	Phe	Ser	Leu	Asn
		260					265					270			
Cys	Pro	Glu	Ala	Asn	Leu	Ser	Glu	Trp	Glu	Gln	Val	Ile	Tyr	Glu	Glu
	275					280					285				
Ala	Asn	Pro	Gly	Gly	Glu	Val	Thr	Ile	Gly	Met	Val	Gly	Lys	Tyr	Ile
290						295					300				
Glu	Leu	Pro	Asp	Ala	Tyr	Lys	Ser	Val	Ile	Glu	Ala	Leu	Lys	His	Gly
305				310						315					320
Gly	Leu	Lys	Asn	Arg	Val	Ser	Val	Asn	Ile	Lys	Leu	Ile	Asp	Ser	Gln
			325					330					335		
Asp	Val	Glu	Thr	Arg	Gly	Val	Glu	Ile	Leu	Lys	Asp	Leu	Asp	Ala	Ile
		340					345					350			
Leu	Ile	Pro	Gly	Gly	Phe	Gly	Tyr	Arg	Gly	Val	Glu	Gly	Lys	Ile	Ala
	355					360					365				
Thr	Ala	Arg	Tyr	Ala	Arg	Glu	Asn	Asn	Ile	Pro	Tyr	Leu	Gly	Ile	Cys
	370					375					380				
Leu	Gly	Met	Gln	Val	Ala	Leu	Ile	Glu	Phe	Ala	Arg	Asn	Val	Ala	Gly
385				390						395					400
Met	Glu	Asn	Ala	Asn	Ser	Thr	Glu	Phe	Val	Pro	Asp	Cys	Lys	Tyr	Pro
			405						410					415	

Val Val Ala Leu Ile Thr Glu Trp Arg Asp Glu Asp Gly Asn Val Glu
 420 425 430
 Val Arg Thr Glu Lys Ser Asp Leu Gly Gly Thr Met Arg Leu Gly Ala
 435 440 445
 Gln Ala Cys Gln Leu Ser Asp Asp Ser Val Val Arg Lys Leu Tyr Gly
 450 455 460
 Glu Pro Val Ile Thr Glu Arg His Arg His Arg Tyr Glu Val Asn Asn
 465 470 475 480
 Met Leu Leu Lys Gln Ile Glu Ala Ala Gly Leu Arg Val Ala Gly Arg
 485 490 495
 Ser Gly Asp Asp Gln Leu Val Glu Ile Ile Glu Val Pro Asn His Pro
 500 505 510
 Trp Phe Val Ala Cys Gln Phe His Pro Glu Phe Thr Ser Thr Pro Arg
 515 520 525
 Asp Gly His Pro Leu Phe Ala Gly Phe Val Lys Ala Ala Ser Glu Tyr
 530 535 540
 Gln Lys Arg Gln Ala Lys
 545 550

<210> 8108

<211> 450

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (421)

<400> 8108

Phe Ser Gln Leu Lys Ile Tyr Val Val Lys Ile Phe Ile Asn Asn Gln
 1 5 10 15
 Gly Asp Lys Lys Met Met Gln Met Phe Ser Gly Ala Ser Ser Gly Gly
 20 25 30
 Trp Phe Glu Lys Ala Gln Arg Phe Gly Lys Ser Phe Met Leu Pro Ile
 35 40 45
 Ala Ile Leu Pro Ala Ala Gly Leu Leu Leu Gly Ile Gly Gly Ala Leu
 50 55 60
 Ser Asn Pro Asn Thr Leu Thr Ala Tyr Pro Phe Leu Asp Val Gly Trp
 65 70 75 80
 Leu Gln Ala Ile Phe Thr Ile Met Ser Ser Ala Gly Ser Ile Val Phe
 85 90 95
 Ala Asn Leu Ser Val Leu Phe Ala Val Gly Val Ala Val Gly Leu Ala
 100 105 110
 Lys Asn Asp Lys Gly Thr Ala Gly Leu Ala Ala Leu Leu Ala Tyr Leu
 115 120 125
 Val Met Asn Ala Thr Ile Asn Ala Leu Leu Ile Leu Thr Gly Lys Leu
 130 135 140
 Ala His Glu Asn Pro Gly Ala Val Gly Gln Gly Met Thr Leu Gly Ile
 145 150 155 160
 Gln Thr Leu Glu Thr Gly Val Phe Gly Gly Val Val Ile Gly Leu Val
 165 170 175
 Thr Cys Ala Leu His His Arg Phe Asn Lys Ile Ala Leu Pro Gln Phe
 180 185 190
 Leu Gly Phe Phe Gly Gly Ser Arg Phe Val Pro Ile Ile Ser Ser Leu
 195 200 205
 Ala Ala Ile Leu Val Gly Ala Leu Met Thr Val Val Trp Pro His Phe
 210 215 220
 Gln Lys Leu Ile Phe Gly Leu Gly Gly Leu Val Asp Ala Thr Gly Tyr
 225 230 235 240
 Leu Gly Thr Leu Leu Tyr Gly Phe Ile Leu Arg Met Leu Gly Pro Phe
 245 250 255

Gly Leu His His Ile Phe Tyr Leu Pro Phe Trp Thr Thr Ala Leu Gly
 260 265 270
 Gly Ser Glu Ile Val Asn Gly His Leu Val Glu Gly Thr Gln Arg Ile
 275 280 285
 Phe Phe Ala Gln Leu Ala Asp Pro Asn Thr Gln His Phe Tyr Glu Gly
 290 295 300
 Thr Ser Arg Phe Met Ser Gly Arg Phe Ile Thr Met Met Phe Gly Leu
 305 310 315 320
 Leu Gly Ala Cys Leu Ala Met Tyr His Thr Ala Arg Pro Glu Asn Lys
 325 330 335
 Lys Arg Val Ala Gly Leu Leu Leu Ser Ala Ala Leu Thr Ser Phe Leu
 340 345 350
 Thr Gly Ile Thr Glu Pro Ile Glu Phe Ser Phe Leu Phe Ile Ala Pro
 355 360 365
 Val Leu Tyr Val Ile His Ala Leu Phe Asp Gly Leu Ala Phe Met Leu
 370 375 380
 Ala His Ile Leu His Ile Thr Ile Gly Gln Thr Phe Ser Gly Gly Phe
 385 390 395 400
 Ile Asp Phe Val Leu Phe Gly Ile Leu Gln Gly Glu Ala Lys Thr Asn
 405 410 415
 Trp Met Phe Val Xaa Leu Val Gly Val Pro Trp Phe Phe Leu Tyr Tyr
 420 425 430
 Cys Thr Phe Arg Tyr Leu Ile Lys Arg Phe Asp Phe Ala Thr Pro Gly
 435 440 445
 Pro
 450

<210> 8109

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 8109

Thr Arg Arg Lys Leu Cys Phe Arg Ser Ala Thr Met Ser Thr Leu Ser
 1 5 10 15
 His Ala Ala Ser Ser Ala Glu Lys Arg Thr Asn Ala Arg Tyr Trp Ile
 20 25 30
 Val Val Met Leu Phe Ile Val Thr Ser Phe Asn Tyr Gly Asp Arg Ala
 35 40 45
 Thr Leu Ser Ile Ala Gly Ser Glu Met Ala Lys Asp Ile Gly Leu Asp
 50 55 60
 Pro Val Gly Met Gly Tyr Val Phe Ser Ala Phe Ser Trp Ala Tyr Val
 65 70 75 80
 Ile Gly Gln Ile Pro Gly Gly Trp Leu Leu Asp Arg Phe Gly Ser Lys
 85 90 95
 Arg Val Tyr Phe Trp Ser Ile Phe Ile Trp Ser Met Phe Thr Leu Leu
 100 105 110
 Gln Gly Phe Val Asp Ile Phe Ser Gly Phe Gly Ile Ile Ala Leu
 115 120 125
 Phe Thr Leu Arg Phe Leu Val Gly Leu Ala Glu Ala Pro Ser Phe Pro
 130 135 140
 Gly Asn Ser Arg Ile Val Ala Ala Trp Phe Pro Ala Gln Glu Arg Gly
 145 150 155 160
 Thr Ala Val Ala Ile Phe Asn Ser Ala Gln Tyr Phe Ala Thr Val Ile
 165 170 175
 Phe Ala Pro Ile Met Gly Trp Leu Thr His Glu Val Gly Trp Ser His
 180 185 190
 Val Phe Phe Phe Met Gly Gly Leu Gly Ile Val Ile Ser Phe Ile Trp
 195 200 205
 Leu Lys Val Ile His Glu Pro Asn Gln His Pro Gly Val Asn Lys Lys
 210 215 220

Glu Leu Asp Tyr Ile Ala Glu Gly Gly Ala Leu Ile Asn Met Asp Gln
 225 230 235 240
 Lys Thr Gln Lys Ala Lys Val Pro Phe Ser Gln Lys Trp Gly Gln Ile
 245 250 255
 Lys Gln Leu Val Gly Ser Arg Met Met Ile Gly Ile Tyr Leu Gly Gln
 260 265 270
 Tyr Cys Ile Asn Ala Leu Thr Tyr Phe Phe Ile Thr Trp Phe Pro Val
 275 280 285
 Tyr Leu Val Gln Ala Arg Gly Met Ser Ile Leu Lys Ala Gly Phe Val
 290 295 300
 Ala Ser Val Pro Ala Ile Cys Gly Phe Val Gly Gly Val Leu Gly Gly
 305 310 315 320
 Val Ile Ser Asp Trp Leu Met Arg Arg Thr Gly Ser Leu Asn Ile Ala
 325 330 335
 Arg Lys Thr Pro Ile Val Leu Gly Met Leu Leu Ser Met Thr Met Val
 340 345 350
 Phe Cys Asn Tyr Val Ser Ala Glu Trp Met Ile Ile Gly Phe Met Ala
 355 360 365
 Met Ala Phe Phe Gly Lys Gly Ile Gly Ala Leu Gly Trp Ala Val Met
 370 375 380
 Ala Asp Thr Ala Pro Lys Glu Ile Ser Gly Leu Ser Gly Gly Leu Phe
 385 390 395 400
 Asn Met Phe Gly Asn Ile Ser Gly Ile Val Thr Pro Ile Ala Ile Gly
 405 410 415
 Tyr Ile Val Gly Thr Thr Gly Ser Phe Asn Gly Ala Leu Ile Tyr Val
 420 425 430
 Gly Val His Ala Leu Val Ala Val Leu Ser Tyr Leu Val Leu Val Gly
 435 440 445
 Asp Ile Lys Arg Ile Glu Leu Lys Pro Val Gly Glu Arg Gly
 450 455 460

<210> 8110

<211> 522

<212> PRT

<213> Enterobacter cloacae

<400> 8110

Leu Thr Asn Gly Phe Thr Val Leu Gln Val His Thr Val Leu Ala Gly
 1 5 10 15
 Asp Gly Gln Arg Phe Asp Asn Ala Gly Pro Gly Ile Phe Lys Leu Ser
 20 25 30
 Leu Gln Ile Val Ile Ala Met His His Lys Glu Asn Ala Gln Gln Gln
 35 40 45
 Thr Asp Glu Asn Gly Arg Ser Glu Asp Gln Asn His His Ala Arg Ala
 50 55 60
 Gln Ala Val Val Gly His Gly Val Pro Leu Trp Asp Asn Gln Ala Asn
 65 70 75 80
 Tyr Val Tyr Leu Arg Thr Ile Ser Ala Met Ala Gln Phe Tyr Ser Ala
 85 90 95
 Lys Arg Arg Val Thr Thr Arg Gln Ile Ile Thr Val Glu Ala Ser Asp
 100 105 110
 Leu Asp Pro Phe Gly Gln Gly Val Ala Arg His Lys Gly Lys Thr Leu
 115 120 125
 Phe Ile Thr Gly Leu Leu Pro Gly Glu Arg Ala Asp Ile Thr Leu Thr
 130 135 140
 Glu Asp Lys Arg Gln Tyr Ala Arg Gly Gln Val Lys Arg Arg Leu Asn
 145 150 155 160
 Asp Ser Pro Glu Arg Val Thr Pro Arg Cys Pro His Phe Gly Val Cys
 165 170 175
 Gly Gly Cys Gln Gln Gln His Ala Ser Thr Glu Leu Gln Gln Lys Ser
 180 185 190

Lys Ser Ser Ala Leu Ala Arg Leu Val Gly His Asp Val Asn Asp Ile
 195 200 205
 Ile Ala Asp Arg Pro Trp Gly Tyr Arg Arg Arg Ala Arg Leu Ser Leu
 210 215 220
 Ser Tyr Gln Pro Lys Thr Glu Arg Leu Glu Met Gly Phe Arg Lys Ala
 225 230 235 240
 Gly Ser Ser Asp Ile Val Ser Val Thr Gln Cys Pro Val Leu Val Pro
 245 250 255
 His Leu Glu Ala Leu Leu Pro Asp Val His His Cys Leu Ala Ser Leu
 260 265 270
 Asp Gly Val Arg Ser Leu Gly His Val Glu Leu Val Leu Ala Asn Ser
 275 280 285
 Gly Pro Leu Met Val Leu Arg His Thr Ala Pro Leu Ser Lys Ala Asp
 290 295 300
 Arg Glu Lys Leu Glu Arg Phe Ser His Ser His Glu Leu Ala Leu Phe
 305 310 315 320
 Leu Ala Pro Gln Ser Glu Ile Leu Glu Gln Val Ser Gly Glu Ala Pro
 325 330 335
 Trp Tyr Ala Ser Asp Gly Leu Arg Leu Thr Phe Ser Pro Arg Asp Phe
 340 345 350
 Ile Gln Val Asn Asp Gly Val Asn Gln Gln Met Val Ala Asn Ala Leu
 355 360 365
 Glu Trp Leu Asp Val Gln Pro Thr Asp Arg Val Leu Asp Leu Phe Cys
 370 375 380
 Gly Met Gly Asn Phe Thr Leu Pro Leu Ala Arg Arg Ala Ala Ser Val
 385 390 395 400
 Val Gly Val Glu Gly Val Glu Ala Leu Val Ala Lys Gly Gln Glu Asn
 405 410 415
 Ala Gln Gln Asn Gly Leu Gln Asn Val Thr Phe Phe His Gln Asn Leu
 420 425 430
 Glu Asp Asp Val Thr Gln Gln Pro Trp Ala Lys Gln Gly Phe Asp Lys
 435 440 445
 Ile Leu Leu Asp Pro Ala Arg Ala Gly Ala Pro Gly Val Met Gln His
 450 455 460
 Ile Ile Lys Leu Ala Pro Glu Arg Val Val Tyr Val Ser Cys Asn Pro
 465 470 475 480
 Ala Thr Leu Ala Arg Asp Ser Glu Ala Leu Leu Ser Gly Gly Tyr Gln
 485 490 495
 Ile Arg Arg Leu Ala Met Leu Asp Met Phe Pro His Thr Gly His Leu
 500 505 510
 Glu Ser Met Val Leu Phe Glu His Ile
 515 520

<210> 8111

<211> 760

<212> PRT

<213> Enterobacter cloacae

<400> 8111

Val Trp Leu Val Asp Phe Asp Arg Pro Leu Ser Leu Lys Glu Arg Thr
 1 5 10 15
 Met Val Ala Val Arg Ser Ala His Leu Asn Lys Ala Gly Glu Phe Asp
 20 25 30
 Pro Gln Lys Trp Ile Ala Ser Leu Gly Ile Ser Ser Gln Gln Ser Cys
 35 40 45
 Glu Arg Leu Thr Glu Thr Trp Ala Tyr Cys Leu Arg Thr Thr Gln Gly
 50 55 60
 His Pro Asp Ala Glu Leu Leu Trp Arg Gly Val Glu Met Val Glu
 65 70 75 80
 Ile Leu Ser Met Leu Asn Met Asp Ile Glu Thr Leu Gln Ala Ala Leu
 85 90 95

Leu	Phe	Pro	Leu	Ala	Asp	Ala	Asp	Val	Val	Thr	Glu	Asp	Val	Leu	Arg
			100					105					110		
Glu	Ser	Val	Gly	Gln	Ser	Val	Val	Ala	Leu	Ile	His	Gly	Val	Arg	Asp
		115					120					125			
Met	Ala	Ala	Ile	Arg	Gln	Leu	Lys	Ala	Ala	Gln	Thr	Asp	Ser	Val	Ser
	130					135					140				
Ser	Glu	Gln	Val	Asp	Asn	Val	Arg	Arg	Met	Leu	Leu	Ala	Met	Val	Asp
145				150						155					160
Asp	Phe	Arg	Cys	Val	Val	Ile	Lys	Leu	Ala	Glu	Arg	Val	Ala	His	Leu
			165					170						175	
Arg	Glu	Val	Lys	Asp	Ala	Pro	Glu	Asp	Glu	Arg	Val	Leu	Ala	Ala	Lys
			180					185					190		
Glu	Cys	Thr	Asn	Ile	Tyr	Ala	Pro	Leu	Ala	Asn	Arg	Leu	Gly	Ile	Gly
	195						200					205			
Gln	Leu	Lys	Trp	Glu	Leu	Glu	Asp	Tyr	Cys	Phe	Arg	Tyr	Leu	His	Pro
	210					215					220				
Ala	Glu	Tyr	Lys	Arg	Ile	Ala	Lys	Leu	Leu	His	Glu	Arg	Arg	Ile	Asp
225				230						235					240
Arg	Glu	His	Tyr	Ile	Glu	Glu	Phe	Val	Ser	Gly	Leu	Arg	Gln	Ser	Met
			245					250						255	
Lys	Glu	Glu	Asn	Val	Arg	Ala	Glu	Val	Tyr	Gly	Arg	Pro	Lys	His	Ile
			260					265					270		
Tyr	Ser	Ile	Trp	Arg	Lys	Met	Gln	Lys	Lys	His	Leu	Ala	Phe	Asp	Glu
	275					280					285				
Leu	Phe	Asp	Val	Arg	Ala	Val	Arg	Ile	Val	Ala	Glu	Arg	Leu	Gln	Asp
	290					295					300				
Cys	Tyr	Ala	Ala	Leu	Gly	Ile	Val	His	Thr	His	Phe	Arg	His	Leu	Pro
305				310					315						320
Asp	Glu	Phe	Asp	Asp	Tyr	Val	Ala	Asn	Pro	Lys	Pro	Asn	Gly	Tyr	Gln
			325					330						335	
Ser	Ile	His	Thr	Val	Val	Leu	Gly	Pro	Gly	Gly	Lys	Thr	Val	Glu	Ile
			340					345					350		
Gln	Ile	Arg	Thr	Lys	Gln	Met	His	Glu	Asp	Ala	Glu	Leu	Gly	Val	Ala
			355				360					365			
Ala	His	Trp	Lys	Tyr	Lys	Glu	Gly	Thr	Ser	Gly	Gly	Gly	Arg	Ser	Gly
	370					375					380				
His	Glu	Asp	Arg	Ile	Ala	Trp	Leu	Arg	Lys	Leu	Ile	Ala	Trp	Gln	Glu
385				390					395						400
Glu	Met	Ala	Asp	Ser	Gly	Glu	Met	Leu	Asp	Glu	Val	Arg	Ser	Gln	Val
			405					410						415	
Phe	Asp	Asp	Arg	Val	Tyr	Val	Phe	Thr	Pro	Lys	Gly	Asp	Val	Val	Asp
			420				425						430		
Leu	Pro	Ala	Gly	Ser	Thr	Pro	Leu	Asp	Phe	Ala	Tyr	His	Ile	His	Ser
		435					440					445			
Asp	Val	Gly	His	Arg	Cys	Ile	Gly	Ala	Lys	Ile	Gly	Gly	Arg	Ile	Val
	450					455					460				
Pro	Phe	Thr	Tyr	Gln	Leu	Gln	Met	Gly	Asp	Gln	Ile	Glu	Ile	Ile	Thr
465				470						475					480
Gln	Lys	Gln	Pro	Asn	Pro	Ser	Arg	Asp	Trp	Leu	Asn	Pro	Asn	Leu	Gly
			485					490						495	
Tyr	Val	Thr	Thr	Ser	Arg	Gly	Arg	Ser	Lys	Ile	His	Ala	Trp	Phe	Arg
			500					505					510		
Lys	Gln	Asp	Arg	Asp	Lys	Asn	Ile	Leu	Ala	Gly	Arg	Gln	Ile	Leu	Asp
		515					520					525			
Asp	Glu	Leu	Glu	His	Ile	Gly	Ile	Ser	Leu	Lys	Glu	Ala	Glu	Lys	Phe
	530					535					540				
Leu	Leu	Pro	Arg	Tyr	Asn	Phe	Asn	Glu	Leu	Asp	Glu	Leu	Leu	Ala	Ala
545				550					555						560
Ile	Gly	Gly	Gly	Asp	Ile	Arg	Leu	Asn	Gln	Met	Val	Asn	Phe	Leu	Gln
			565					570						575	
Ala	Gln	Phe	Asn	Lys	Pro	Ser	Ala	Ala	Glu	Gln	Asp	Ala	Ala	Ala	Leu

										580						585						590		
Lys	Gln	Leu	Gln	Gln	Lys	Thr	Tyr	Ala	Pro	Gln	Gln	Arg	Ser	Lys	Asp									
		595					600					605												
Asn	Gly	Arg	Val	Val	Val	Glu	Gly	Val	Gly	Asn	Leu	Met	His	His	Ile									
		610				615					620													
Ala	Arg	Cys	Cys	Gln	Pro	Ile	Pro	Gly	Asp	Asp	Ile	Val	Gly	Phe	Ile									
625					630					635					640									
Thr	Gln	Gly	Arg	Gly	Ile	Ser	Ile	His	Arg	Ser	Asp	Cys	Asp	Gln	Leu									
				645					650					655										
Ala	Glu	Leu	Gln	Ser	His	Ala	Pro	Glu	Arg	Ile	Val	Glu	Ala	Val	Trp									
			660					665					670											
Gly	Glu	Ser	Tyr	Ser	Ala	Gly	Tyr	Ser	Leu	Val	Val	Arg	Val	Thr	Ala									
		675					680					685												
Asn	Asp	Arg	Ser	Gly	Leu	Leu	Arg	Asp	Ile	Thr	Thr	Ile	Leu	Ala	Asn									
		690				695					700													
Glu	Lys	Val	Asn	Val	Leu	Gly	Val	Ala	Ser	Arg	Ser	Asp	Thr	Arg	Glu									
705					710					715					720									
Gln	Leu	Ala	Thr	Ile	Asp	Met	Thr	Ile	Glu	Ile	Tyr	Asn	Leu	Gln	Val									
				725					730					735										
Leu	Gly	Arg	Val	Leu	Gly	Lys	Leu	Asn	Gln	Val	Pro	Asp	Val	Ile	Asp									
			740					745					750											
Ala	Arg	Arg	Leu	His	Gly	Gly																		
		755					760																	

<210> 8112

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 8112

Asn	Gly	Asn	Ala	Tyr	Leu	Trp	Tyr	Ala	Leu	Phe	Val	Trp	Ser	Phe	Ser							
1				5				10						15								
Leu	Thr	Cys	Thr	Glu	Glu	Asn	Leu	Met	Ser	Lys	Ile	Val	Lys	Val	Ile							
			20					25					30									
Gly	Arg	Glu	Ile	Ile	Asp	Ser	Arg	Gly	Asn	Pro	Thr	Val	Glu	Ala	Glu							
		35					40					45										
Val	His	Leu	Glu	Gly	Gly	Phe	Val	Gly	Met	Ala	Ala	Ala	Pro	Ser	Gly							
		50			55					60												
Ala	Ser	Thr	Gly	Ser	Arg	Glu	Ala	Leu	Glu	Leu	Arg	Asp	Gly	Asp	Lys							
65					70					75					80							
Ser	Arg	Phe	Met	Gly	Lys	Gly	Val	Leu	Lys	Ala	Val	Gly	Ala	Val	Asn							
			85					90					95									
Gly	Pro	Ile	Ala	Gln	Ala	Ile	Val	Gly	Lys	Asp	Ala	Lys	Asp	Gln	Ala							
			100					105					110									
Gly	Ile	Asp	Lys	Ile	Met	Ile	Asp	Leu	Asp	Gly	Thr	Glu	Asn	Lys	Ser							
		115					120					125										
Asn	Phe	Gly	Ala	Asn	Ala	Ile	Leu	Ala	Val	Ser	Leu	Ala	Asn	Ala	Lys							
		130				135					140											
Ala	Ala	Ala	Ala	Ala	Lys	Gly	Met	Pro	Leu	Phe	Glu	His	Ile	Ala	Glu							
145					150					155					160							
Leu	Asn	Gly	Thr	Pro	Gly	Lys	Tyr	Ser	Met	Pro	Val	Pro	Met	Met	Asn							
			165					170						175								
Ile	Ile	Asn	Gly	Gly	Glu	His	Ala	Asp	Asn	Asn	Val	Asp	Ile	Gln	Glu							
			180					185					190									
Phe	Met	Ile	Gln	Pro	Val	Gly	Ala	Lys	Thr	Leu	Lys	Glu	Ala	Val	Arg							
		195					200					205										
Met	Gly	Ser	Glu	Val	Phe	His	Asn	Leu	Ala	Lys	Val	Leu	Lys	Ala	Lys							
		210				215					220											
Gly	Met	Asn	Thr	Ala	Val	Gly	Asp	Glu	Gly	Gly	Tyr	Ala	Pro	Asn	Leu							
225					230					235					240							
Gly	Ser	Asn	Ala	Glu	Ala	Leu	Ala	Val	Ile	Ala	Glu	Ala	Val	Lys	Ala							

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<210> 8113
<211> 312
<212> PRT
<213> Enterobacter cloacae
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His 1	Leu	Ser	Gln	Ile 5	Thr	Met	Ser	Lys	Arg 10	Leu	Pro	Pro	Leu	Asn 15	Ala
Leu	Arg	Val	Phe 20	Asp	Ala	Ala	Ala	Arg 25	His	Leu	Ser	Phe	Thr 30	Arg	Ala
Ala	Asp	Glu 35	Leu	Phe	Val	Thr	Gln 40	Ala	Ala	Val	Ser 45	His	Gln	Ile	Lys
Ser	Leu 50	Glu	Asp	Phe	Leu	Gly 55	Leu	Lys	Leu	Phe 60	Arg	Arg	Arg	Asn	Arg
Ser 65	Leu	Leu	Leu	Thr 70	Glu	Glu	Gly	Gln	Ser	Tyr 75	Phe	Gln	Asp	Ile 80	Lys
Glu	Ile	Phe	Ser 85	Gln	Leu	Thr	Glu	Ala 90	Thr	Arg	Lys	Leu	Gln 95	Ala	Arg
Ser	Ala	Lys	Gly 100	Ala	Leu	Thr	Val 105	Ser	Leu	Leu	Pro	Ser	Phe 110	Ala	Ile
Gln	Trp	Leu 115	Val	Pro	Arg	Leu	Ser 120	Ser	Phe	Asn	Ser 125	Thr	Tyr	Pro	Gly
Ile	Asp 130	Val	Arg	Ile	Gln	Ala 135	Val	Asp	Arg	Gln	Glu 140	Asp	Lys	Leu	Ala
Asp 145	Asp	Val	Asp	Val 150	Ala	Ile	Phe	Tyr	Gly	Arg 155	Gly	Asn	Trp	Pro 160	Gly
Leu	Arg	Val	Glu 165	Lys	Leu	Tyr	Ala	Glu 170	Tyr	Leu	Leu	Pro	Val 175	Cys	Ser
Pro	Leu	Leu 180	Thr	Gly	Asp	Lys	Ala 185	Leu	Lys	Thr	Pro	Ala 190	Asp	Leu	
Ala	Gln	His 195	Thr	Leu	Leu	His	Asp 200	Ala	Ser	Arg	Arg 205	Asp	Trp	Gln	Thr
Tyr	Thr	Arg	Gln	Leu	Gly	Leu	Asn	His	Ile	Asn	Val	Gln	Gln	Gly	Pro

210		215		220
Ile Phe Ser His Ser	Ala Met Val Leu Gln	Ala Ala Ile His Gly Gln		
225	230	235	240	
Gly Val Ala Leu Ala	Asn Asn Val Met	Ala Gln Ser Glu Ile Glu Ala		
	245	250	255	
Gly Arg Leu Val Cys	Pro Phe Asn Asp	Val Leu Val Ser Lys Asn Ala		
	260	265	270	
Phe Tyr Leu Val Cys	His Asp Ser Gln	Ala Glu Leu Gly Lys Ile Ala		
	275	280	285	
Ala Phe Arg Gln Trp	Ile Leu Ala Lys	Ala Ala Ser Glu Gln Glu Lys		
	290	295	300	
Phe Arg Phe Arg Tyr	Glu Gln			
305	310			

<210> 8114

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 8114

Arg Leu Cys Ala Gly	His Ala Ser Ile	Gln Asp Leu Asn Met Thr Ser
1	5	10
Arg Phe Met Leu Ile	Phe Ala Ala Val	Gly Phe Ile Phe Val Ala
	20	25
Leu Gly Ala Phe Gly	Ala His Val Leu	Ser Lys Ser Leu Gly Val Val
	35	40
Glu Met Gly Trp Ile	Gln Thr Gly Leu	Glu Tyr Gln Ala Phe His Thr
	50	55
Leu Ala Ile Phe Gly	Leu Ala Val Ala	Met Gln Pro Ala Ile Ser Ile
	65	70
Trp Phe Tyr Trp Ser	Val Tyr Leu Ala	Val Gly Thr Val Leu Phe
	85	90
Ser Gly Ile Leu Tyr	Cys Leu Ala Leu	Ser His Leu Arg Leu Trp Ala
	100	105
Phe Val Thr Pro Val	Gly Gly Val Ser	Phe Leu Ala Gly Trp Val Leu
	115	120
Met Phe Ile Gly Ala	Ile Arg Leu Lys	Arg Lys Gly Val Val His Glu
	130	135
		140

145

<210> 8115

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8115

Pro Leu Tyr Arg Tyr	Thr Tyr Gly Leu	Ser Leu Ser Cys Leu Thr Arg
1	5	10
Arg Glu Lys Ser Val	Asp Ile Glu Thr	Ala Asn Ala Leu Thr Ser Phe
	20	25
Thr Thr Arg Tyr Cys	Asp Ala Trp His	Glu Lys Arg Gly Thr Trp Pro
	35	40
Gln Ser Thr Asp Leu	Cys Gly Val Pro	Ser Pro Cys Ile Ile Ala Ser
	50	55
Gln Asp Asp Tyr Val	Ile Trp Gln Pro	Lys Pro Phe Met Gly Glu Gln
	65	70
Asn Val Asn Ala Val	Glu Arg Ala Met	Asp Leu Val Ile Gln Pro Ala
	85	90
Leu His Ala Phe Tyr	Thr Thr Gln Phe	Ala Gly Asp Met Thr Ala Cys
	100	105
		110

Phe Ala Gly Gln Pro Leu Thr Leu Leu Gln Thr Trp Ser Glu Asp Asp
 115 120 125
 Leu Gln Arg Val Gln Glu Asn Leu Ile Gly His Leu Val Thr Gln Lys
 130 135 140
 Arg Leu Lys Leu Ser Pro Thr Leu Phe Ile Ala Thr Leu Asp Ser Glu
 145 150 155 160
 Leu Asp Val Ile Ser Val Cys Asn Leu Ser Gly Glu Val Ile Lys Glu
 165 170 175
 Thr Leu Gly Thr Arg Asn Arg Asp Val Leu Ala Pro Ser Leu Ala Asp
 180 185 190
 Phe Leu Thr Arg Ile Glu Pro Leu Leu
 195 200

<210> 8116

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8116

Arg Cys Met Thr Leu Glu Ile Leu Tyr Gln Asp Glu Trp Leu Val Ala
 1 5 10 15
 Val Asn Lys Pro Ser Gly Trp Leu Val His Arg Ser Trp Leu Asp Arg
 20 25 30
 Asp Glu Lys Val Val Val Met Gln Thr Val Arg Asp Gln Ile Gly Gln
 35 40 45
 His Val Phe Thr Ala His Arg Leu Asp Arg Pro Thr Ser Gly Val Leu
 50 55 60
 Leu Met Gly Leu Ser Ser Glu Ala Gly Arg Leu Ala Gln Gln Phe
 65 70 75 80
 Glu Gln His Gln Ile Gln Lys Arg Tyr His Ala Ile Val Arg Gly Trp
 85 90 95
 Leu Met Asp Ser Ala Thr Leu Asp Tyr Pro Leu Val Glu Glu Leu Asp
 100 105 110
 Lys Ile Ala Asp Lys Phe Ala Arg Glu Asp Lys Gly Pro Gln Pro Ala
 115 120 125
 Val Thr Asp Tyr Arg Gly Met Ala Thr Thr Glu Leu Pro Val Ala Thr
 130 135 140
 Ser Lys Phe Pro Thr Thr Arg Tyr Ser Leu Val Glu Leu Leu Pro Lys
 145 150 155 160
 Thr Gly Arg Lys His Gln Leu Arg Arg His Leu Ala His Leu Arg His
 165 170 175
 Pro Ile Ile Gly Asp Ser Lys His Gly Asp Leu Arg Gln Asn Arg Ser
 180 185 190
 Ala Ala Glu His Phe Gly Cys Asn Arg Leu Met Leu His Ala Ser Glu
 195 200 205
 Leu Arg Leu Thr His Pro Phe Thr Gly Glu Pro Leu Thr Ile Arg Ala
 210 215 220
 Gly Leu Asp Lys Val Trp Met Gln Ala Leu Ser Gln Phe Gly Trp Leu
 225 230 235 240
 Gly Gln Leu Pro Glu Asn Glu Arg Val Glu Phe Ala Ala Gly Asn Val
 245 250 255
 Gln Asp Glu Gln Gln Ala Gln
 260

<210> 8117

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8117

Leu Arg Glu Gln Ser Met Ala Glu Val Gly Ile Phe Val Gly Thr Met

1				5					10				15
Tyr	Gly	Asn	Ser	Leu	Leu	Val	Ala	Glu	Glu	Ala	Glu	Ala	Ile
			20					25					30
Asn	Gln	Gly	His	Lys	Ala	Thr	Val	Tyr	Glu	Asp	Pro	Glu	Leu
		35					40					45	Ala
Trp	Glu	Lys	Tyr	Lys	Asp	Lys	Tyr	Ile	Leu	Val	Val	Thr	Ser
	50					55					60	Thr	Thr
Gly	Gln	Gly	Asp	Leu	Pro	Asp	Ser	Ile	Val	Pro	Leu	Phe	Gln
65					70					75			Ile
Lys	Asp	Gln	Leu	Gly	Tyr	Gln	Pro	Asp	Val	His	Tyr	Gly	Ile
				85					90				Ile
Leu	Gly	Asp	Ser	Ser	Tyr	Ala	Asn	Phe	Cys	Gly	Gly	Gly	Lys
			100					105					Gln
Asp	Ala	Leu	Leu	Gln	Glu	Gln	Ser	Ala	Gln	Arg	Val	Gly	Glu
		115					120					125	Met
Leu	Ile	Asp	Ala	Gly	Glu	His	Pro	Glu	Pro	Glu	Ser	Glu	Ser
	130					135					140		Asn
Trp	Val	Glu	His	Trp	Ala	Thr	Leu	Leu	Asn				
145					150					155			

<210> 8118

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 8118

Gly	Trp	Leu	Met	Lys	Ile	Val	Ile	Ala	Pro	Asp	Ser	Tyr	Lys	Glu	Ser
1				5					10					15	
Leu	Ser	Ala	Leu	Glu	Val	Ala	Thr	Ala	Ile	Glu	Val	Gly	Phe	Arg	Glu
			20					25					30		
Ile	Phe	Pro	Ser	Ala	His	Tyr	Val	Lys	Leu	Pro	Val	Ala	Asp	Gly	Gly
		35					40					45			
Glu	Gly	Thr	Val	Glu	Ala	Met	Val	Ala	Ala	Thr	His	Gly	Arg	Leu	Val
	50					55					60				
His	Val	Pro	Val	Thr	Gly	Pro	Leu	Gly	Glu	Arg	Val	Glu	Gly	Phe	Phe
65					70					75					80
Gly	Leu	Ser	Gly	Asp	Gly	Lys	Ser	Ala	Phe	Ile	Glu	Met	Ala	Ala	Ala
				85					90					95	
Ser	Gly	Leu	Glu	Leu	Val	Ala	Pro	Ala	Lys	Arg	Asn	Pro	Leu	Ile	Thr
			100					105					110		
Thr	Ser	Trp	Gly	Thr	Gly	Glu	Leu	Ile	Arg	His	Ala	Leu	Asp	Ala	Gly
		115					120					125			
Val	Lys	His	Ile	Ile	Ile	Gly	Ile	Gly	Gly	Ser	Ala	Thr	Asn	Asp	Gly
	130					135					140				
Gly	Ala	Gly	Met	Val	Gln	Ala	Leu	Gly	Val	Lys	Leu	Leu	Asp	Ala	Lys
145					150				155						160
Ala	Gln	Pro	Val	Gly	Pro	Gly	Gly	Gly	Glu	Leu	Ala	Ser	Leu	Ala	His
				165					170					175	
Ile	Asp	Leu	Ser	Gly	Leu	Asp	Lys	Arg	Leu	Ala	Asp	Cys	Arg	Ile	Glu
		180					185						190		
Val	Ala	Cys	Asp	Val	Thr	Asn	Pro	Leu	Ile	Gly	Glu	Thr	Gly	Ala	Ser
		195					200					205			
Ala	Val	Phe	Gly	Pro	Gln	Lys	Gly	Ala	Thr	Pro	Glu	Met	Val	Arg	Thr
	210					215					220				
Leu	Asp	Asn	Ala	Leu	Ala	His	Tyr	Ala	Lys	Ile	Ile	Ala	Arg	Asp	Leu
225					230					235					240
Asp	Ile	Asp	Val	Leu	Asn	Leu	Ala	Gly	Gly	Gly	Ala	Ala	Gly	Gly	Met
				245					250					255	
Gly	Ala	Ala	Leu	Tyr	Ala	Phe	Cys	Gly	Ala	Gln	Leu	Arg	Gln	Gly	Ile
		260						265					270		
Glu	Ile	Val	Thr	Asp	Ala	Leu	His	Leu	Asp	Glu	Gln	Val	Ala	Asp	Ala

385

<211> 278

<213> Enterobacter cloacae

[illegible]

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 8120

Gly	Ala	His	Leu	Ile	Thr	His	Ile	Ser	Pro	Leu	Gly	Ser	Met	Asp	Met
1				5					10					15	
Leu	Ser	Gln	Leu	Glu	Val	Asp	Met	Leu	Lys	Arg	Thr	Ala	Ser	Ser	Asp
		20						25					30		
Leu	Tyr	Gln	Leu	Phe	Arg	Asn	Cys	Ser	Leu	Ala	Val	Leu	Asn	Ser	Gly
		35					40					45			
Ser	Leu	Thr	Asp	Asn	Ser	Lys	Glu	Leu	Leu	Ser	Arg	Phe	Glu	Ser	Phe
	50					55					60				
Asp	Ile	Asn	Val	Leu	Arg	Arg	Glu	Arg	Gly	Val	Lys	Leu	Glu	Val	Ile
65					70					75					80
Asn	Pro	Pro	Glu	Asp	Ala	Phe	Val	Asp	Gly	Arg	Ile	Ile	Arg	Ser	Leu
			85						90					95	
Gln	Ala	Asn	Leu	Phe	Ala	Val	Leu	Arg	Asp	Ile	Leu	Phe	Val	Asn	Gly
		100							105					110	
Gln	Ile	Ser	Asn	Ala	Gly	Arg	Phe	Gln	His	Leu	Asp	Leu	Glu	Ser	Ser
		115					120					125			
Val	His	Ile	Thr	Asn	Leu	Val	Phe	Ser	Ile	Leu	Arg	Asn	Ala	Arg	Ala
	130						135					140			
Leu	His	Val	Gly	Glu	Ala	Pro	Asn	Met	Val	Val	Cys	Trp	Gly	Gly	His
145					150					155					160
Ser	Ile	Asn	Glu	Thr	Glu	Tyr	Leu	Tyr	Ala	Arg	Arg	Val	Gly	Thr	Gln
			165						170					175	
Leu	Gly	Leu	Arg	Glu	Leu	Asn	Ile	Cys	Thr	Gly	Cys	Gly	Pro	Gly	Ala
			180					185					190		
Met	Glu	Ala	Pro	Met	Lys	Gly	Ala	Ala	Val	Gly	His	Ala	Gln	Gln	Arg
		195					200					205			
Tyr	Lys	Glu	Gly	Arg	Phe	Ile	Gly	Met	Thr	Glu	Pro	Ser	Ile	Ile	Ala
	210					215					220				
Ala	Glu	Pro	Pro	Asn	Pro	Leu	Val	Asn	Glu	Leu	Ile	Ile	Met	Pro	Asp
225				230						235					240
Ile	Glu	Lys	Arg	Leu	Glu	Ala	Phe	Val	Arg	Ile	Ala	His	Gly	Ile	Ile
			245						250					255	
Ile	Phe	Pro	Gly	Gly	Val	Gly	Thr	Ala	Glu	Glu	Leu	Leu	Tyr	Leu	Leu
		260						265					270		
Gly	Ile	Leu	Met	Asn	Pro	Ala	Asn	Lys	Asp	Gln	Val	Leu	Pro	Leu	Ile
		275					280					285			
Leu	Thr	Gly	Pro	Lys	Glu	Ser	Ala	Asp	Tyr	Phe	Arg	Val	Leu	Asp	Glu
	290					295					300				
Phe	Ile	Val	His	Thr	Leu	Gly	Glu	Asp	Ala	Arg	Arg	His	Tyr	Arg	Ile
305					310					315					320
Ile	Ile	Asp	Asp	Ala	Ala	Glu	Val	Ala	Arg	Gln	Met	Lys	Lys	Ala	Met
			325						330					335	
Pro	Leu	Val	Lys	Glu	Asn	Arg	Arg	Asp	Thr	Gly	Asp	Ala	Tyr	Ser	Phe
		340						345					350		
Asn	Trp	Ser	Ile	Arg	Ile	Ala	Pro	Asp	Leu	Gln	Ile	Pro	Phe	Glu	Pro
		355					360					365			
Ser	His	Glu	Asn	Met	Ala	Asn	Leu	Lys	Leu	Tyr	Pro	Asp	Gln	Pro	Val
	370					375					380				
Glu	Val	Leu	Ala	Ala	Asp	Leu	Arg	Arg	Ala	Phe	Ser	Gly	Ile	Val	Ala
385					390					395					400
Gly	Asn	Val	Lys	Glu	Val	Gly	Ile	Arg	Ala	Ile	Glu	Glu	Phe	Gly	Pro
			405						410					415	
Tyr	Lys	Ile	His	Gly	Asp	Pro	Glu	Met	Met	Arg	Arg	Met	Asp	Asp	Met
			420					425					430		
Leu	Gln	Gly	Phe	Val	Ala	Gln	His	Arg	Met	Lys	Leu	Pro	Gly	Ser	Ala
	435						440					445			
Tyr	Ile	Pro	Cys	Tyr	Glu	Ile	Ile	Lys							

450

455

<210> 8121

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 8121

Thr	Asn	Phe	Ile	Leu	Pro	Ser	Gly	Thr	Phe	Ser	Ser	Asp	Leu	Thr	Lys
1				5					10					15	
Asn	Leu	Thr	Ile	Cys	Phe	Leu	Gln	Glu	Ile	Gln	Met	Glu	Thr	Thr	Gln
			20					25					30		
Thr	Ser	Thr	Val	Ala	Ser	Ile	Glu	Ser	Arg	Ser	Gly	Trp	Arg	Lys	Thr
		35					40					45			
Asp	Thr	Met	Trp	Met	Leu	Gly	Leu	Tyr	Gly	Thr	Ala	Ile	Gly	Ala	Gly
	50					55					60				
Val	Leu	Phe	Leu	Pro	Ile	Asn	Ala	Gly	Val	Gly	Gly	Met	Ile	Pro	Leu
65					70					75					80
Ile	Ile	Met	Ala	Leu	Ile	Ala	Phe	Pro	Met	Thr	Phe	Phe	Ala	His	Arg
				85					90					95	
Gly	Leu	Thr	Arg	Phe	Val	Leu	Ser	Gly	Lys	Asn	Pro	Gly	Glu	Asp	Ile
			100					105					110		
Thr	Glu	Val	Val	Glu	Glu	His	Phe	Gly	Val	Gly	Ala	Gly	Lys	Leu	Ile
		115					120					125			
Thr	Leu	Leu	Tyr	Phe	Phe	Ala	Ile	Tyr	Pro	Ile	Leu	Leu	Val	Tyr	Ser
	130					135					140				
Val	Ala	Ile	Thr	Asn	Thr	Val	Glu	Ser	Phe	Met	Met	His	Gln	Leu	Gln
145					150					155					160
Met	Thr	Pro	Pro	Pro	Arg	Ala	Ile	Leu	Ser	Leu	Ile	Leu	Ile	Val	Gly
				165					170					175	
Met	Met	Thr	Ile	Val	Arg	Phe	Gly	Glu	Gln	Met	Ile	Val	Lys	Ala	Met
			180					185					190		
Ser	Val	Leu	Val	Phe	Pro	Phe	Val	Ala	Ala	Leu	Met	Val	Leu	Ala	Leu
		195					200					205			
Tyr	Leu	Ile	Pro	Gln	Trp	Asn	Gly	Ala	Ala	Leu	Glu	Thr	Leu	Ser	Leu
	210					215					220				
Ser	Ser	Ala	Ser	Thr	Thr	Gly	Asn	Gly	Leu	Leu	Leu	Thr	Leu	Trp	Leu
225					230					235					240
Ala	Ile	Pro	Val	Met	Val	Phe	Ser	Phe	Asn	His	Ser	Pro	Ile	Ile	Ser
				245					250					255	
Ser	Phe	Ala	Val	Ala	Lys	Arg	Glu	Glu	Tyr	Gly	Asn	Gly	Ala	Glu	Lys
		260						265					270		
Lys	Cys	Ser	Ser	Ile	Leu	Ala	Arg	Ala	His	Ile	Met	Met	Val	Leu	Thr
		275					280					285			
Val	Met	Phe	Phe	Val	Phe	Ser	Cys	Val	Leu	Ser	Leu	Ser	Pro	Ala	Asp
	290					295					300				
Leu	Ala	Ala	Ala	Lys	Glu	Gln	Asn	Ile	Ser	Ile	Leu	Ser	Tyr	Leu	Ala
305					310					315					320
Asn	His	Phe	Asn	Ala	Pro	Leu	Ile	Ala	Trp	Met	Ala	Pro	Ile	Ile	Ala
			325						330					335	
Ile	Ile	Ala	Ile	Thr	Lys	Ser	Phe	Leu	Gly	His	Tyr	Leu	Gly	Ala	Arg
		340						345					350		
Glu	Gly	Phe	Asn	Gly	Met	Val	Ile	Lys	Ser	Leu	Arg	Gly	Lys	Gly	Lys
		355					360					365			
Thr	Ile	Glu	Ile	Asn	Arg	Leu	Asn	Lys	Ile	Thr	Ala	Leu	Phe	Met	Leu
	370					375					380				
Val	Thr	Thr	Trp	Ala	Val	Ala	Thr	Leu	Asn	Pro	Ser	Ile	Leu	Gly	Met
385					390					395					400
Ile	Glu	Thr	Leu	Gly	Gly	Pro	Ile	Ile	Ala	Met	Ile	Leu	Phe	Leu	Met
			405						410					415	
Pro	Met	Tyr	Ala	Ile	Gln	Lys	Val	Pro	Ala	Met	Arg	Lys	Tyr	Ser	Gly

	420		425		430
His	Ile Ser Asn Val Phe Val Val Val Met Gly Leu Ile Ala Ile Ser				
	435		440		445 .
Ala	Ile Phe Tyr Ser Leu Phe Ser				
	450		455		

<210> 8122
 <211> 258
 <212> PRT
 <213> Enterobacter cloacae

<400> 8122

Thr	Glu	Gly	Arg	Leu	Ser	Val	Ala	Val	His	Leu	Leu	Ile	Val	Asp	Ala
1				5					10					15	
Leu	Asn	Leu	Ile	Arg	Arg	Ile	His	Ala	Val	Gln	Gly	Thr	Pro	Cys	Lys
			20					25					30		
Asp	Thr	Cys	Leu	His	Ala	Leu	Glu	Gln	Leu	Ile	Arg	His	Ser	Glu	Pro
		35					40					45			
Thr	His	Ala	Val	Ala	Val	Phe	Asp	Asp	Glu	Ala	Arg	Asn	Thr	Gly	Trp
	50					55					60				
Arg	His	Gln	Arg	Leu	Pro	Asp	Tyr	Lys	Ala	Gly	Arg	Ala	Pro	Met	Pro
65				70						75					80
Asp	Asp	Leu	His	Ala	Glu	Met	Pro	Ala	Ile	Arg	Ala	Ala	Phe	Glu	Gln
			85						90					95	
Arg	Gly	Val	Pro	Cys	Trp	Gly	Ala	His	Gly	Asn	Glu	Ala	Asp	Asp	Leu
			100					105					110		
Ala	Ala	Thr	Leu	Ala	Val	Lys	Val	Ala	Ser	Ala	Gly	His	Gln	Ala	Thr
		115					120					125			
Ile	Val	Ser	Thr	Asp	Lys	Gly	Tyr	Cys	Gln	Leu	Leu	Ser	Pro	Thr	Ile
	130					135					140				
Arg	Ile	Arg	Asp	Tyr	Phe	Gln	Lys	Arg	Trp	Leu	Asp	Ala	Pro	Phe	Ile
145				150						155					160
Ala	Ser	Glu	Phe	Gly	Val	Ser	Pro	Glu	Gln	Leu	Pro	Asp	Tyr	Trp	Gly
			165						170					175	
Leu	Ala	Gly	Ile	Ser	Ser	Ser	Lys	Val	Pro	Gly	Val	Ala	Gly	Ile	Gly
			180					185					190		
Pro	Lys	Ser	Ala	Ala	Gln	Leu	Leu	Thr	Glu	Phe	Gln	Ser	Leu	Glu	Gly
		195					200					205			
Met	Tyr	Ala	Arg	Leu	Asn	Glu	Val	Pro	Asp	Lys	Trp	Arg	Lys	Lys	Leu
	210				215						220				
Glu	Ala	His	Lys	Glu	Met	Ala	Phe	Ile	Cys	Arg	Glu	Val	Ala	Thr	Leu
225				230					235						240
Gln	Thr	Asp	Leu	Gln	Leu	Asp	Gly	Asn	Leu	Gln	Gln	Leu	Arg	Leu	Glu
			245						250					255	

Arg

<210> 8123
 <211> 278
 <212> PRT
 <213> Enterobacter cloacae

<400> 8123

Gly	Ser	Ser	Met	Ser	Asp	His	Glu	Asn	Leu	Leu	Leu	Lys	Leu	Arg	Gln
1			5						10					15	
Glu	Ala	Ser	Gly	Tyr	Ser	Pro	Thr	Gln	Gln	Lys	Leu	Gly	Glu	Phe	Val
			20					25					30		
Leu	Asn	Asp	Pro	Ala	Arg	Val	Leu	Tyr	Leu	Thr	Ile	Thr	Glu	Leu	Ala
		35					40					45			
Arg	Glu	Ser	Gly	Thr	Ser	Glu	Ala	Ser	Val	Thr	Arg	Leu	Cys	Arg	Thr
	50						55					60			

Leu Gly Cys Lys Gly Tyr Asn Glu Phe Lys Met Ala Leu Ala Leu Asp
 65 70 75 80
 Ile Gln Gln Gly Leu Pro Glu Arg Gln Ala Gly Asp Ala Ile Asp Asn
 85 90 95
 Val Val Asp Glu Ser Val Gln Ala Leu Gln Asp Thr Ala Lys Leu Leu
 100 105 110
 Asp Arg Ala Gln Leu Glu Gln Ala Thr Leu Ala Leu His Gln Ala Gln
 115 120 125
 Ser Val Gln Ile Tyr Gly Val Ala Ala Ser Ala Ile Leu Gly Glu Tyr
 130 135 140
 Leu His Tyr Lys Leu Leu Arg Leu Gly Lys Pro Ala Gln Leu Phe Ser
 145 150 155 160
 Asp Met His Arg Ala Ala Met Asn Ala Thr Thr Leu Ser Lys Glu Thr
 165 170 175
 Leu Val Val Ala Ile Ser Ser Ser Gly Ser Thr Arg Asp Leu Leu His
 180 185 190
 Val Val Lys Leu Ala Arg Lys Arg Gly Val Lys Val Leu Ala Leu Ser
 195 200 205
 Asn Thr Pro Arg Ser Pro Leu Ala Ser Leu Ser Asp Leu Gln Leu Val
 210 215 220
 Ala Ala Lys Pro Glu Gly Pro Leu Ser Ala Gly Ala Leu Asn Ala Lys
 225 230 235 240
 Val Gly Val Met Leu Leu Val Glu Leu Leu Thr Thr Ser Leu Ile Ala
 245 250 255
 Val Asp Ser His Tyr Gly Asp Val Ser Gln Gln Thr Ala Ser Ala Thr
 260 265 270
 Leu Pro Leu Leu Leu
 275

<210> 8124

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8124

Asn Met Ser Tyr Glu Asn His Gln Ala Leu Thr Gly Leu Thr Leu Gly
 1 5 10 15
 Lys Ser Thr Asp Tyr Arg Asp Thr Tyr Asp Ala Ser Leu Leu Gln Gly
 20 25 30
 Val Pro Arg Ser Leu Asn Arg Asp Pro Leu Gly Leu His Ala Asp Ala
 35 40 45
 Leu Pro Phe Val Gly Gly Asp Ile Trp Thr Leu Tyr Glu Leu Ser Trp
 50 55 60
 Leu Asn Ala Arg Gly Leu Pro Gln Val Ala Val Gly His Val Glu Leu
 65 70 75 80
 Asp Tyr Ala Ser Val Asn Leu Val Glu Ser Lys Ser Phe Lys Leu Tyr
 85 90 95
 Leu Asn Ser Phe Asn Gln Thr Lys Phe Asn Ser Trp Asp Glu Val Gln
 100 105 110
 Gln Thr Leu Glu Arg Asp Leu Ser Ala Cys Ala Gln Gly Asn Val Thr
 115 120 125
 Val Ser Leu Tyr Arg Leu His Glu Leu Glu Gly Gln Pro Ile Ala His
 130 135 140
 Phe His Gly Thr Cys Ile Asp Asp Gln Asp Ile Glu Val Glu Ser Tyr
 145 150 155 160
 Glu Phe Ser Ser Asp Tyr Leu Glu Asn Ala Ala Gly Gly Lys Val Val
 165 170 175
 Asn Glu Thr Leu Val Ser His Leu Leu Lys Ser Asn Cys Leu Ile Thr
 180 185 190
 His Gln Pro Asp Trp Gly Ser Val Gln Ile Gln Tyr Arg Gly Pro Gln
 195 200 205

Ile	Asp	Arg	Glu	Lys	Leu	Leu	Arg	Tyr	Leu	Val	Ser	Phe	Arg	His	His
	210					215					220				
Asn	Glu	Phe	His	Glu	Gln	Cys	Val	Glu	Arg	Ile	Phe	Asn	Asp	Ile	Gln
225					230					235					240
Arg	Phe	Cys	Gln	Pro	Glu	Lys	Leu	Ser	Val	Tyr	Ala	Arg	Tyr	Thr	Arg
				245					250					255	
Arg	Gly	Gly	Leu	Asp	Ile	Asn	Pro	Trp	Arg	Thr	Asn	Thr	Asp	Phe	Val
			260					265					270		
Pro	Ala	Thr	Gly	Arg	Leu	Val	Arg	Gln							
		275					280								

<210> 8125

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 8125

Thr	Ala	Ile	Thr	Val	Thr	Leu	Ala	Ser	Lys	Arg	Gln	Ala	Pro	Arg	Cys
1				5					10					15	
Arg	Phe	Cys	Tyr	Arg	Lys	Gln	Lys	Thr	Arg	Arg	Ser	Gly	Phe	Phe	Arg
			20					25					30		
Lys	Asn	Glu	Gly	Ser	Gly	Leu	Cys	Leu	Ala	Phe	Asp	Leu	Phe	Thr	Thr
		35				40						45			
Val	Val	Arg	Cys	Phe	Phe	Ala	Gln	Arg	Phe	Phe	Asp	Thr	Asn	Gln	Leu
	50					55					60				
Val	Val	Phe	Ser	Asn	Thr	Val	Arg	Thr	Ala	His	Arg	Thr	Gly	Phe	Asp
65					70					75					80
Leu	Ala	Ser	Ser	Gly	Thr	Asn	Ser	Gln	Val	Ser	Asp	Gly	Ser	Val	Phe
				85				90						95	
Ser	Phe	Ala	Arg	Thr	Val	Arg	Asp	Asn	Arg	Gly	Val	Ala	Ser	Val	Phe
			100					105					110		
Arg	His	Phe	Asp	Arg	Ser	Gln	Arg	Phe	Gly	Gln	Arg	Thr	Asp	Leu	Val
		115				120						125			
Glu	Phe	Asp	Gln	Asp	Gly	Val	Asn	Asp	Ala	Phe	Leu	Asp	Ala	Phe	Phe
	130					135					140				
Gln	Asp	Leu	Gly	Val	Gly	Tyr	Glu	Gln	Ile	Val	Thr	Asn	Gln	Leu	Asp
145					150					155					160
Phe	Val	Ala	Gln	Tyr	Phe	Gly	Leu	Val	Cys	Glu	Thr	Ile	Pro	Val	Arg
			165						170					175	
Leu	Val	Gln	Thr	Val	Phe	Asp	Arg	Asn	Asp	Trp	Val	Leu	Phe	Gly	Gln
		180						185					190		
Val	Phe	Gln	Glu	Val	Gly	Glu	Leu	Phe	Arg	Gly	Glu	Arg	Phe	Val	Ala
		195					200					205			
Phe	Ala	Ser	Gln	Asn	Val	Phe	Thr	Val	Phe	Val	Glu	Phe	Arg	Cys	Cys
	210					215					220				
Ala	Val	His	Arg	Gln	Gly	Asp	Val	Phe	Ala	Gln	Leu	Val	Ala	Cys	Cys
225					230					235					240
Phe	Asn	Arg	Phe	Ser	Asp	Asn	Ser	Gln	Cys	Phe	Cys	Val	Arg	Thr	Gln
				245					250					255	
Val	Trp	Arg	Val	Ala	Ala	Phe	Val	Thr	Asn	Ser	Arg	Val	His	Thr	Phe
		260						265					270		
Ser	Phe	Gln	Asn	Phe	Ser	Gln	Val	Val	Glu	His	Phe	Arg	Thr	His	Thr
		275					280					285			
Tyr	Arg	Phe	Phe	Gln	Gly	Phe	Arg	Ala	Asn	Trp	Leu	Asn	His	Glu	Phe
	290				295						300				
Leu	Asn	Ile	Asn	Val	Val	Cys	Val	Leu	Thr	Val	Asp	Asp	Val		
305					310					315					320
His	His	Trp	Tyr	Arg	His	Arg	Val	Phe	Ala	Trp	Gly	Ala	Val	Gln	Phe
			325						330					335	
Ser	Asp	Val	Leu	Glu	Gln	Trp	His	Ala	Phe	Ser	Cys	Cys	Cys	Arg	Phe
			340					345					350		

Gly	Val	Arg	Gln	Gly	Asn	Gly	Gln	Asp	Cys	Val	Arg	Thr	Glu	Val	Arg
		355					360					365			
Phe	Val	Phe	Ser	Thr	Val	Gln	Ile	Asp	His	Asp	Leu	Val	Asp	Ala	Ser
	370					375					380				
Leu	Ile	Phe	Ser	Ile	Phe	Ala	Asn	Asp	Ser	Leu	Ser	Asn	Arg	Thr	Val
385					390					395					400
Asn	Ser	Ala	Asn	Arg	Phe	Gln	Tyr	Ala	Phe	Ala	His	Glu	Thr	Gly	Phe
			405						410					415	
Val	Ala	Ile	Thr	Gln	Phe	Gln	Arg	Phe	Ala	Gly	Thr	Cys	Arg	Ser	Thr
			420					425					430		

<210> 8126

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 8126

Gln	Phe	Val	Glu	Leu	Val	Glu	Val	Val	Ala	Arg	Gln	Gln	Glu	Leu	Leu
1			5						10					15	
Arg	Leu	Phe	Gln	Ala	Tyr	Pro	Asp	Met	Phe	Gln	Leu	Val	Val	Gln	Asp
			20					25					30		
Leu	Thr	Thr	Gly	Lys	Asp	Val	Leu	Val	Thr	Ile	Leu	Leu	Ala	Glu	Pro
		35					40					45			
Gly	Val	Asp	Phe	Arg	Ala	Pro	Thr	Ala	Gly	Gly	Asn	Val	Thr	Glu	Val
	50					55					60				
Arg	Ile	Gln	Pro	Val	Ala	Trp	Val	Trp	Leu	Leu	Leu	Gly	Asp	Asp	
65				70					75					80	
Phe	Asn	Leu	Ile	Ala	His	Leu	Glu	Leu	Val	Gly	Lys	Arg	Tyr	Asp	Thr
			85						90					95	
Ser	Ala	Asp	Leu	Arg	Pro	Asp	Ala	Thr	Val	Pro	His	Ile	Ala	Val	Asp
			100					105					110		
Val	Val	Gly	Glu	Ile	Glu	Arg	Arg	Gly	Ala	Cys	Arg	Gln	Ile	Asn	His
		115					120					125			
Val	Pro	Phe	Arg	Gly	Lys	Asp	Val	Asp	Ala	Ile	Val	Glu	Asp	Leu	Thr
	130					135					140				
Ala	His	Phe	Val	Glu	His	Phe	Ala	Gly	Val	Gly	His	Leu	Phe	Leu	Pro
145					150					155					160
Arg	Asn	Gln	Leu	Thr	Gln	Pro	Gly	Asp	Thr	Val	Leu	Val	Thr	Gly	Ala
			165						170					175	
Thr	Ala	Thr	Gly	Gly	Thr	Leu	Phe	Val	Phe	Pro	Val	Arg	Arg	His	Ala
			180					185					190		
Gln	Leu	Gly	Val	Phe	Val	His	Leu	Phe	Gly	Thr	Asp	Leu	Asn	Phe	His
		195					200					205			
Arg	Phe	Ala	Ala	Arg	Ala	Glu	His	His	Gly	Met	Asp	Arg	Leu	Ile	Ala
	210					215					220				
Ile	Arg	Phe	Arg	Val	Arg	Asp	Val	Val	Ile	Glu	Leu	Ile	Arg	Gln	Met
225					230					235					240
Ala	Glu	Met	Ser	Met	His	Tyr	Pro	Gln	Arg	Gly	Ile	Ala	Val	Leu	Lys
			245						250					255	
Thr	Leu	Arg	His	Asp	Thr	His	Arg	Ala	His	Val	Lys	Gln	Leu	Val	Lys
			260					265					270		
Gly	Glu	Val	Phe	Leu	Leu	His	Phe	Ala	Pro	Asp	Ala	Val	Asp	Val	Leu
		275					280					285			
Trp	Thr	Pro	Val	Asp	Leu	Gly	Ala	His	Ile	Leu	Leu	Phe	His	Arg	Leu
	290					295					300				
Ala	Gln	Pro	Ala	Asp	Lys	Phe	Leu	Asp	Ile	Val	Leu	Ala	Val	Asn	Ala
305					310					315					320
Ala	Phe	Val	Gln	Gln	Phe	Cys	Asn	Ala	Phe	Val	Phe	Arg	Arg	Met	Gln
				325					330					335	

Val Ala Glu Ala Val Ile Phe Gln Leu Pro Leu Gln Leu Pro Asp Thr
 340 345 350
 Gln Thr Val Arg Gln Arg Arg Ile Asp Ile Arg Thr Leu Phe Gly Gly
 355 360 365
 Gln Asp Ala Leu Val Phe Arg Arg Ile Leu Tyr Phe Thr Gln Met Gly
 370 375 380
 Asn Pro Phe Gly Gln Leu Asp His His Ala Ala Glu Ile Ile Tyr His
 385 390 395 400
 Arg Gln Gln His Thr Thr Asn Val Ile His Leu Leu Gly Arg Asp Arg
 405 410 415
 Val Ser Leu Arg Gly Phe Lys Leu Thr Asn Gly Cys His Ile Thr His
 420 425 430
 Ala Val Asp Glu Arg His Asp Gly Leu Ala Asp Ala Phe Thr Gln Asp
 435 440 445
 Val Phe Arg His His Val Gly Val Arg Gln Gly Glu Gln Gln Cys Gly
 450 455 460
 Leu
 465

<210> 8127

<211> 923

<212> PRT

<213> Enterobacter cloacae

<400> 8127

Arg Asn Ser Met Thr Asn Tyr Ser Leu Arg Ala Arg Met Met Ile Leu
 1 5 10 15
 Ile Leu Ala Pro Thr Val Leu Ile Gly Leu Leu Leu Ser Ile Phe Phe
 20 25 30
 Val Val His Arg Tyr Asn Asp Leu Gln Arg Gln Leu Glu Asp Ala Gly
 35 40 45
 Ala Ser Ile Ile Glu Pro Leu Ala Val Ser Ser Glu Tyr Gly Met Asn
 50 55 60
 Leu Gln Asn Arg Glu Ser Ile Gly Gln Leu Ile Ser Val Leu His Arg
 65 70 75 80
 Arg His Ser Glu Ile Val Arg Ala Ile Ser Val Tyr Asp Glu His Asn
 85 90 95
 Arg Leu Phe Val Thr Ser Asn Phe His Leu Asp Pro Thr Ser Leu Lys
 100 105 110
 Ile Pro Asp Gly Thr Pro Phe Pro Arg His Leu Thr Val Leu Arg Arg
 115 120 125
 Gly Asp Ile Met Ile Leu Arg Thr Pro Ile Ile Ser Glu Ser Tyr Ser
 130 135 140
 Pro Asp Glu Ser Ala Gln Ser Asp Ala Lys Ser Ser Asn Asn Met Leu
 145 150 155 160
 Gly Tyr Val Ala Leu Glu Leu Asp Leu Lys Ser Val Arg Leu Gln Gln
 165 170 175
 Tyr Lys Glu Ile Phe Ile Ser Gly Val Met Met Leu Phe Cys Ile Gly
 180 185 190
 Ile Ala Leu Ile Phe Gly Trp Arg Leu Met Arg Asp Val Thr Gly Pro
 195 200 205
 Ile Arg Asn Met Val Asn Thr Val Asp Arg Ile Arg Arg Gly Gln Leu
 210 215 220
 Asp Ser Arg Val Glu Gly Phe Met Leu Gly Glu Leu Asp Met Leu Lys
 225 230 235 240
 Asn Gly Ile Asn Ser Met Ala Met Ser Leu Ala Ala Tyr His Glu Glu
 245 250 255
 Met Gln His Asn Val Asp Gln Ala Thr Ser Asp Leu Arg Glu Thr Leu
 260 265 270
 Glu Gln Met Glu Ile Gln Asn Val Glu Leu Asp Leu Ala Lys Lys Arg
 275 280 285

Ala	Gln	Glu	Ala	Ala	Arg	Ile	Lys	Ser	Glu	Phe	Leu	Ala	Asn	Met	Ser
	290					295					300				
His	Glu	Leu	Arg	Thr	Pro	Leu	Asn	Gly	Val	Ile	Gly	Phe	Thr	Arg	Leu
305					310					315					320
Thr	Leu	Lys	Ser	Glu	Leu	Asn	Pro	Thr	Gln	Arg	Asp	His	Leu	His	Thr
				325					330					335	
Ile	Glu	Arg	Ser	Ala	Asn	Asn	Leu	Leu	Thr	Ile	Ile	Asn	Asp	Val	Leu
			340					345					350		
Asp	Phe	Ser	Lys	Leu	Glu	Ala	Gly	Lys	Leu	Ile	Leu	Glu	Ser	Ile	Pro
	355						360					365			
Phe	Pro	Leu	Arg	Ser	Thr	Leu	Asp	Asp	Val	Val	Thr	Leu	Leu	Ala	His
	370					375					380				
Ser	Ser	His	Asp	Lys	Gly	Leu	Glu	Leu	Thr	Leu	Asn	Ile	Lys	Asn	Asp
385					390					395					400
Val	Pro	Asp	Asn	Val	Ile	Gly	Asp	Pro	Leu	Arg	Leu	Gln	Gln	Val	Ile
			405					410						415	
Thr	Asn	Leu	Val	Gly	Asn	Ala	Ile	Lys	Phe	Thr	Glu	Ser	Gly	Asn	Ile
			420					425					430		
Asp	Ile	Leu	Val	Glu	Lys	Arg	Ala	Leu	Ser	Asn	Asn	Lys	Val	Gln	Ile
	435						440					445			
Glu	Val	Gln	Ile	Arg	Asp	Thr	Gly	Ile	Gly	Ile	Pro	Glu	Arg	Asp	Gln
	450					455					460				
Thr	Arg	Leu	Phe	Gln	Ala	Phe	Arg	Gln	Ala	Asp	Ala	Ser	Ile	Ser	Arg
465					470					475					480
Arg	His	Gly	Gly	Thr	Gly	Leu	Gly	Leu	Val	Ile	Thr	Gln	Lys	Leu	Val
				485					490					495	
Lys	Glu	Met	Gly	Gly	Asp	Ile	Ser	Phe	His	Ser	Gln	Pro	Asn	Arg	Gly
			500					505					510		
Ser	Thr	Phe	Trp	Phe	His	Ile	Asn	Leu	Asp	Leu	Asn	Pro	Asn	Val	Gln
	515						520					525			
Thr	Asp	Gly	Pro	Val	Thr	Gly	Cys	Leu	Lys	Gly	Met	Arg	Leu	Ala	Tyr
	530					535					540				
Val	Glu	Pro	Asn	Ala	Ala	Ala	Ala	Gln	Cys	Thr	Leu	Asp	Val	Leu	Ser
545					550					555					560
Ser	Thr	Pro	Leu	Glu	Val	Ile	Tyr	Ser	Pro	Thr	Phe	Ser	Ala	Leu	Ala
				565					570					575	
Asn	Asp	His	Tyr	Asp	Ile	Leu	Leu	Leu	Gly	Ile	Pro	Val	Thr	Phe	Thr
			580					585					590		
Gly	Glu	Leu	Thr	Met	Gln	Gln	Glu	Arg	Leu	Ala	Lys	Ala	Ala	Ser	Met
	595						600					605			
Thr	Asp	Tyr	Leu	Leu	Leu	Ala	Leu	Pro	Cys	His	Ala	Gln	Ile	Asn	Ala
	610					615					620				
Glu	Glu	Leu	Lys	Asn	Asp	Gly	Ala	Ala	Ala	Cys	Leu	Leu	Lys	Pro	Leu
625					630					635					640
Thr	Ala	Thr	Arg	Leu	Leu	Pro	Ala	Leu	Thr	Glu	Tyr	Cys	Arg	Leu	Thr
				645					650					655	
His	Gln	Ser	Leu	Pro	Leu	Glu	Asn	Asp	Glu	His	Lys	Leu	Pro	Met	Thr
			660					665					670		
Val	Met	Ala	Val	Asp	Asp	Asn	Pro	Ala	Asn	Leu	Lys	Leu	Ile	Gly	Val
			675				680					685			
Leu	Leu	Glu	Asp	Gln	Val	Gln	His	Val	Glu	Leu	Cys	Thr	Ser	Gly	Ala
	690					695					700				
Glu	Ala	Val	Glu	Gln	Ala	Lys	Gln	Met	Gln	Phe	Asp	Leu	Ile	Leu	Met
705					710					715					720
Asp	Ile	Gln	Met	Pro	Gly	Met	Asp	Gly	Ile	Arg	Ala	Cys	Glu	Leu	Ile
				725				730					735		
Arg	Gln	Leu	Pro	His	Gln	Gln	Gln	Thr	Pro	Val	Ile	Ala	Val	Thr	Ala
			740					745					750		
His	Ala	Met	Ala	Gly	Gln	Lys	Glu	Lys	Leu	Leu	Gly	Ala	Gly	Met	Asn
	755						760					765			
Asp	Tyr	Leu	Ala	Lys	Pro	Ile	Asp	Glu	Glu	Lys	Leu	His	Ser	Leu	Leu

770	775	780
Leu Arg Tyr Lys Pro Gly His Ile Gly Gly Thr Tyr Thr Ile Thr Ala		
785	790	795
Glu Ser Pro Glu Ile Ser Val Asn Gln Asn Ala Thr Phe Asp Trp Gln		800
	805	810
Leu Ala Leu Arg Gln Ala Ala Gly Lys Pro Asp Leu Ala Arg Asp Met		815
	820	825
Leu Gln Met Leu Val Asp Phe Leu Pro Glu Ile Arg Asn Lys Val Glu		830
	835	840
Glu Gln Leu Val Gly Glu Asn Pro Glu Gly Leu Leu Glu Ala Ile His		845
	850	855
Lys Leu His Gly Ser Cys Gly Tyr Ser Gly Val Pro Arg Leu Lys Asn		860
865	870	875
Leu Cys Gln Leu Leu Glu Gln Gln Leu Arg Ala Gly Thr Pro Glu Ser		880
	885	890
Asp Leu Glu Pro Glu Phe Leu Glu Leu Leu Asp Glu Met Asp Asn Val		895
	900	905
Thr Arg Glu Ala Met Lys Val Leu Gly Ser		910
	915	920

<210> 8128

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8128

Ser Asn Gly Arg Ile Met Ile Ser Val Phe Asp Ile Phe Lys Ile Gly		
1	5	10
Ile Gly Pro Ser Ser Ser His Thr Val Gly Pro Met Lys Ala Gly Lys		15
	20	25
Gln Phe Thr Asp Asp Leu Ile Ala Arg Gly Ile Leu His Asp Ile Thr		30
	35	40
Arg Val Val Val Asp Val Tyr Gly Ser Leu Ser Leu Thr Gly Lys Gly		45
	50	55
His His Thr Asp Ile Ala Ile Ile Met Gly Leu Ala Gly Asn Leu Pro		60
65	70	75
Asp Thr Val Asp Ile Asp Ala Ile Pro Gly Phe Ile Gln Asp Val Asn		80
	85	90
Thr His Gly Arg Leu Leu Leu Ala Asn Gly Glu His Glu Val Glu Phe		95
	100	105
Pro Val Asp His Cys Met Asn Phe His Ala Asp Asn Leu Ser Leu His		110
	115	120
Glu Asn Gly Met Arg Ile Thr Ala Leu Ala Gly Asp Lys Ala Val Tyr		125
	130	135
Ser Gln Thr Tyr Tyr Ser Ile Gly Gly Gly Phe Ile Val Asp Glu Asp		140
145	150	155
His Phe Gly Gln Ser Thr Asn Ser Ala Val Asp Val Pro Tyr Pro Tyr		160
	165	170
Lys Asn Ala Ala Asp Leu Gln Arg His Cys Gln Glu Thr Gly Leu Ser		175
	180	185
Leu Ser Gly Leu Met Met Lys Asn Glu Leu Ala Leu His Ser Lys Glu		190
	195	200
Glu Leu Glu Gln His Phe Ala Asn Val Trp Glu Val Met Arg Ser Gly		205
	210	215
Ile Glu Arg Gly Ile Thr Thr Glu Gly Val Leu Pro Gly Lys Leu Arg		220
225	230	235
Val Pro Arg Arg Ala Ala Leu Arg Arg Met Leu Val Ser Ala Asp		240
	245	250
Lys Thr Thr Thr Asp Pro Met Ala Val Val Asp Trp Ile Asn Met Phe		255
	260	265
Ala Leu Ala Val Asn Glu Glu Asn Ala Ala Gly Gly Arg Val Val Thr		270

	275		280		285
Ala	Pro	Thr	Asn	Gly	Ala
	290		295		300
Tyr	Asp	Lys	Phe	Ile	Arg
305			310		315
Leu	Leu	Val	Ala	Ser	Ala
			325		330
Ile	Ser	Gly	Ala	Glu	Val
			340		345
Ser	Met	Ala	Ala	Ala	Gly
			355		360
Gln	Val	Cys	Ile	Ala	Ala
370			375		380
Thr	Cys	Asp	Pro	Val	Gly
385			390		395
Asn	Ala	Ile	Ala	Ser	Val
			405		410
Arg	Arg	Thr	Ser	Glu	Pro
			420		425
Met	Tyr	Glu	Thr	Gly	Lys
			435		440
Arg	Gly	Gly	Leu	Ala	Met
450			455		460

<210> 8129

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8129

Arg	Ala	Val	Leu	Arg	Arg	Ile	Ala	Arg	Arg	Arg	Gly	Asp	Ala	Ser	Val
1			5					10					15		
Ile	Phe	Asp	Val	Ala	Arg	His	Val	Asp	Leu	Leu	Val	Gly	Val	Val	Pro
			20					25				30			
Ile	Val	Asn	Leu	Glu	Trp	Ile	Gln	Lys	Leu	Thr	Arg	Asp	Met	Ser	Glu
			35				40				45				
Arg	Gly	His	Ser	Arg	Glu	Ala	Val	Met	Asp	Ser	Val	Val	Arg	Ser	Met
50					55				60						
Glu	Asp	Tyr	Ile	Asn	Phe	Leu	Thr	Pro	Gln	Phe	Ser	Arg	Thr	His	Ile
65				70				75						80	
Asn	Phe	Gln	Arg	Val	Pro	Thr	Val	Asp	Thr	Ser	Asn	Pro	Phe	Ala	Ala
			85					90					95		
Lys	Ser	Ile	Leu	Ser	Leu	Asp	Glu	Ser	Phe	Val	Val	Ile	His	Phe	Arg
			100				105					110			
Asn	Leu	Glu	Gly	Ile	Asp	Tyr	Pro	Trp	Leu	Leu	Ala	Met	Leu	Gln	Gly
		115					120				125				
Ser	Phe	Ile	Ser	His	Met	Asn	Thr	Leu	Val	Val	Pro	Gly	Gly	Lys	Met
130						135					140				
Gly	Leu	Ala	Met	Glu	Leu	Ile	Met	Thr	Pro	Leu	Val	Gln	Arg	Leu	Met
145				150					155					160	
Glu	Gly	Lys	Gln	Ile	Ala										
				165											

<210> 8130

<211> 274

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (242)

<220>
 <221>UNSURE
 <222>(243)

<220>
 <221>UNSURE
 <222>(246)

<220>
 <221>UNSURE
 <222>(253)

<220>
 <221>UNSURE
 <222>(255)

<220>
 <221>UNSURE
 <222>(263)

<220>
 <221>UNSURE
 <222>(265)

<400> 8130

Thr	Arg	Cys	Gly	Arg	Pro	Gln	Phe	Gln	Arg	Leu	Asp	Ile	Gly	Phe	Ser
1				5					10					15	
Gly	Pro	Leu	Thr	Phe	Phe	Lys	Glu	Ala	Gly	Leu	Lys	Ile	Asp	Thr	
			20					25				30			
Thr	Leu	Leu	Leu	Pro	Glu	Thr	Gly	Phe	Leu	Leu	Val	Gly	Glu	Phe	Phe
		35					40					45			
His	Tyr	Ala	Ser	Leu	Asn	Ser	Pro	Phe	Ala	Thr	Ser	Ile	Ser	Ser	Lys
	50					55					60				
Thr	Arg	Phe	Arg	Arg	Glu	Gly	Gly	Lys	Thr	Arg	Ala	Gly	Tyr	Ala	Arg
65					70					75					80
Val	Asp	Glu	Arg	Leu	Arg	Gln	His	Phe	Arg	Gly	Glu	Asn	Asp	Asp	Arg
				85					90					95	
Leu	Ser	Arg	His	Ile	Leu	Val	Trp	Thr	Asp	Ile	Val	Ser	Leu	Asn	Leu
			100					105					110		
Arg	Asp	Leu	Ile	Arg	His	Val	His	Ala	Phe	His	His	Phe	Ala	Lys	His
		115					120					125			
Arg	Val	Ala	Lys	Val	Ala	Leu	Thr	Val	Val	Gln	Glu	Gly	Val	Ile	Ser
		130				135					140				
His	Val	Glu	Glu	Glu	Leu	Ala	Gly	Gly	Ala	Val	Phe	Val	Arg	Arg	Thr
145					150					155					160
Arg	His	Arg	Asp	Gly	Ala	Ala	Leu	Val	Gln	Gln	Ala	Val	Val	Ser	Phe
				165					170					175	
Ile	Phe	Asp	Gly	Arg	Val	Arg	Leu	Phe	Leu	Leu	His	Leu	Leu	Val	Lys
			180					185					190		
Thr	Ala	Thr	Leu	Asn	His	Lys	Ala	Arg	Asp	His	Ala	Val	Glu	Cys	Gly
		195					200					205			
Val	Val	Ile	Lys	Thr	Thr	Val	His	Val	Val	Glu	Glu	Val	Phe	His	Arg
		210				215					220				
Asn	Arg	Gly	Phe	Leu	Ala	Ile	Gln	Leu	Gln	Leu	Asn	Ile	Pro	Arg	Lys
225					230					235					240
Ser	Xaa	Xaa	Gln	Asp	Xaa	Arg	Val	Ser	Phe	Gly	Cys	Xaa	Arg	Xaa	Arg
				245					250					255	
Gly	Asn	Gly	Lys	Lys	Ser	Xaa	Pro	Xaa	Cys	Asn	Asn	Arg	Pro	Leu	Leu
			260					265					270		

Ile

<210> 8131
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 8131
 Met Met Lys Asp Thr Thr Ile Glu Ala Arg Leu Ala Glu Leu Glu Ser
 1 5 10 15
 Arg Leu Ala Phe Gln Asp Ile Thr Ile Glu Glu Leu Asn Gln Thr Val
 20 25 30
 Thr Ala His Glu Leu Glu Met Ala Lys Leu Arg Asp His Met Arg Leu
 35 40 45
 Leu Thr Glu Lys Leu Lys Ala Thr Gln Pro Ser Asn Ile Ala Ser Gln
 50 55 60
 Ser Glu Glu Thr Pro Pro Pro His Tyr
 65 70

<210> 8132
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 8132
 Gly Val Lys Lys Ala Gly Leu Ser Arg Phe Phe Ile Phe Arg Ser Thr
 1 5 10 15
 Glu Ser Val Ala Thr Ala Ala Ala Val Thr Ala Thr Thr Phe Thr Val
 20 25 30
 Ala Val Val Met Thr Met Val Val Ala Val Thr Thr Ala Ala Val
 35 40 45
 Met Ala Val Ile Val Val Met Val Val Thr Val Arg Thr Val Asn Val
 50 55 60
 Ala Met Ser Gln Leu Phe Phe Ser Arg Phe Thr Asp Arg Asn Asn Phe
 65 70 75 80
 Tyr Val Glu Leu Gln Val Leu Thr Arg Gln His Val Val Ala Val Asn
 85 90 95
 His Asn Val Val Val Phe Asn Phe Ser Asp Phe Asn Arg Asn Arg Thr
 100 105 110
 Leu Val Ser Phe Arg Gln Glu Ala His Ala Asn Leu Gln Leu Val Asn
 115 120 125
 Ala His Glu Tyr Val Phe Arg Asn Ala Leu Asn Gln Val Val Val Ile
 130 135 140
 Leu Thr Val Ser Val Val Arg Ala Tyr Ser Asn Val Glu Phe Val Ala
 145 150 155 160
 Asn Phe Met Ala Phe Gln Arg Arg Phe Gln Ala Gly Asn Gln Gly Thr
 165 170 175
 Val Thr Met Gln Val Val Gln Arg Arg Thr His Arg Arg Leu Ile Asn
 180 185 190
 Gln His Thr Val Phe Cys Thr Tyr Leu Ile Gly Gln Ala Asp His Gln
 195 200 205
 Val Phe Cys Tyr Phe His Asp Ile Ser
 210 215

<210> 8133
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 8133
 Lys Met Ile Ile Pro Trp Gln Asp Leu Ser Pro Asp Thr Leu Asp Asn

1		5		10		15									
Leu	Ile	Glu	Ser	Phe	Val	Leu	Arg	Glu	Gly	Thr	Asp	Tyr	Gly	Glu	His
		20						25					30		
Glu	Arg	Ser	Leu	Glu	Gln	Lys	Val	Asn	Asp	Val	Lys	Arg	Gln	Leu	Lys
		35					40					45			
Ser	Gly	Asp	Val	Val	Leu	Val	Trp	Ser	Glu	Leu	His	Glu	Thr	Val	Asn
	50					55					60				
Ile	Met	Pro	Arg	Asn	Ala	Phe	His	Gly							
65					70										

<210> 8134

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8134

Ser	Leu	His	Phe	Ser	Ser	Gln	Gly	Val	Ala	Met	Ser	Ala	Arg	His	Pro
1				5					10					15	
Val	Ile	Ala	Val	Thr	Gly	Ser	Ser	Gly	Ala	Gly	Thr	Thr	Thr	Thr	Ser
		20						25					30		
Leu	Ala	Phe	Arg	Lys	Ile	Phe	Ala	Gln	Leu	Asn	Leu	Arg	Ala	Ala	Glu
		35					40					45			
Val	Glu	Gly	Asp	Ser	Phe	His	Arg	Tyr	Thr	Arg	Pro	Glu	Met	Asp	Met
	50					55					60				
Ala	Ile	Arg	Lys	Ala	Arg	Asp	Leu	Gly	Lys	His	Ile	Ser	Tyr	Phe	Gly
65					70				75						80
Pro	Glu	Ala	Asn	Asp	Phe	Gly	Leu	Leu	Glu	Gln	Thr	Phe	Arg	Glu	Tyr
			85						90					95	
Gly	Gln	Ser	Gly	Thr	Gly	Gln	Ser	Arg	Lys	Tyr	Leu	His	Thr	Tyr	Asp
		100						105					110		
Glu	Ala	Val	Pro	Trp	Asn	Gln	Val	Pro	Gly	Thr	Phe	Thr	Pro	Trp	Gln
		115					120					125			
Pro	Leu	Pro	Glu	Pro	Thr	Asp	Val	Leu	Phe	Tyr	Glu	Gly	Leu	His	Gly
	130					135					140				
Gly	Val	Val	Thr	Pro	Gln	Ser	Tyr	Ser	Thr	Trp	Arg	Ala	Thr	Trp	Ile
145					150					155					160
Cys	Trp	Trp	Gly	Trp	Cys	Arg	Leu	Leu	Thr	Leu	Ser	Gly	Ser	Arg	Ser
				165					170					175	

<210> 8135

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8135

Gln	Arg	Met	Val	Leu	Gly	Lys	Pro	Gln	Thr	Asp	Pro	Thr	Leu	Glu	Trp
1				5					10					15	
Phe	Leu	Ser	His	Cys	His	Ile	His	Lys	Tyr	Pro	Ser	Lys	Ser	Thr	Leu
		20						25					30		
Ile	His	Gln	Gly	Glu	Lys	Ala	Glu	Thr	Leu	Tyr	Tyr	Ile	Val	Lys	Gly
		35					40					45			
Ser	Val	Ala	Val	Leu	Ile	Lys	Asp	Glu	Glu	Gly	Lys	Glu	Met	Ile	Leu
	50					55					60				
Ser	Tyr	Leu	Asn	Gln	Gly	Asp	Phe	Ile	Gly	Glu	Leu	Gly	Leu	Phe	Glu
65					70					75					80
Glu	Gly	Gln	Glu	Arg	Ser	Ala	Trp	Val	Arg	Ala	Lys	Thr	Ala	Cys	Glu
			85						90					95	
Val	Ala	Glu	Ile	Ser	Tyr	Lys	Lys	Phe	Arg	Gln	Leu	Ile	Gln	Val	Asn
			100					105					110		

Pro Asp Ile Leu Met Arg Leu Ser Ser Gln Met Ala Arg Arg Leu Gln
 115 120 125
 Val Thr Ser Glu Lys Val Gly Asn Leu Ala Phe Leu Asp Val Thr Gly
 130 135 140
 Arg Ile Ala Gln Thr Leu Leu Asn Leu Ala Lys Gln Pro Asp Ala Met
 145 150 155 160
 Thr His Pro Asp Gly Met Gln Ile Lys Ile Thr Arg Gln Glu Ile Gly
 165 170 175
 Gln Ile Val Gly Cys Ser Arg Glu Thr Val Gly Arg Ile Leu Lys Met
 180 185 190
 Leu Glu Asp Gln Asn Leu Ile Ser Ala His Gly Lys Thr Ile Val Val
 195 200 205
 Tyr Gly Thr Arg
 210

<210> 8136

<211> 715

<212> PRT

<213> Enterobacter cloacae

<400> 8136

Phe Arg Ser Asn Gly Val Pro Pro Gln Gly Gly Thr Pro Phe Leu Ser
 1 5 10 15
 Leu Leu Leu Met Trp Arg Arg Leu Ile Tyr His Pro Glu Val Asn Tyr
 20 25 30
 Ala Leu Arg Gln Thr Leu Val Leu Cys Leu Pro Val Ala Val Gly Leu
 35 40 45
 Ile Leu Gly His Leu Gln Gln Gly Leu Leu Phe Ser Leu Val Pro Ala
 50 55 60
 Cys Cys Asn Ile Ala Gly Leu Asp Thr Pro His Lys Arg Phe Phe Lys
 65 70 75 80
 Arg Leu Ile Ile Gly Gly Cys Leu Phe Ala Gly Cys Ser Leu Ala Val
 85 90 95
 Gln Leu Leu Leu Ala Arg Asp Ile Pro Leu Pro Leu Ile Leu Thr Val
 100 105 110
 Leu Ala Met Thr Leu Gly Val Thr Ala Glu Ile Ser Ser Leu His Ala
 115 120 125
 Arg Leu Leu Pro Ala Ser Leu Ile Ala Ala Ile Phe Thr Leu Ser Leu
 130 135 140
 Ala Gly Asn Met Pro Val Trp Glu Pro Leu Leu Ile Tyr Ala Leu Gly
 145 150 155 160
 Thr Leu Trp Tyr Gly Leu Phe Asn Trp Phe Trp Phe Trp Leu Trp Arg
 165 170 175
 Glu Gln Pro Leu Arg Glu Ser Leu Ser Leu Leu Tyr Val Gln Leu Ala
 180 185 190
 Glu Tyr Cys Glu Ala Lys Tyr Thr Leu Leu Thr Gln His Thr Asp Pro
 195 200 205
 Glu Lys Ser Leu Pro Pro Leu Leu Ala Arg Gln Gln Lys Val Val Asp
 210 215 220
 Leu Ile Ser Gln Cys Tyr Gln Gln Leu His Met Leu Ala Ala Asn Lys
 225 230 235 240
 Asn His Glu Tyr Lys Arg Leu Leu Arg Ile Phe Gln Val Gly Leu Asp
 245 250 255
 Leu Gln Glu His Ile Ser Val Ser Leu His Asn Pro Glu Glu Val Gln
 260 265 270
 Lys Leu Val Glu Arg Ser His Ala Glu Ala Val Ile Arg Trp Asn Ala
 275 280 285
 Gln Thr Val Ala Ala Arg Leu Arg Val Leu Ala Asp Asp Ile Leu Tyr
 290 295 300
 His Arg Tyr Pro Thr Arg Phe Asn Met Asp Lys Gln Leu Gly Ala Leu
 305 310 315 320

Glu Lys Ile Ala Arg Gln His Ala Asp Asn Pro Val Gly Gln Phe Ala
 325 330
 Ala Trp His Phe Ser Arg Ile Ala Arg Val Leu Arg Thr Gln Arg Pro
 340 345 350
 Leu Tyr Ala Arg Asp Leu Met Ala Asp Lys Gln Lys Arg Leu Pro Leu
 355 360 365
 Leu Pro Ala Leu Lys Ser Tyr Leu Ser Leu Lys Ser Ser Ala Leu Arg
 370 375 380
 Asn Ala Ala Arg Ile Ser Val Met Leu Ser Ile Ala Ser Leu Met Gly
 385 390 395 400
 Met Ala Leu His Leu Pro Lys Pro Tyr Trp Ile Leu Met Thr Val Leu
 405 410 415
 Phe Val Thr Gln Asn Gly Tyr Gly Ala Thr Arg Val Arg Ile Leu His
 420 425 430
 Arg Ala Gly Gly Thr Met Ala Gly Leu Ile Ile Ala Gly Val Thr Leu
 435 440 445
 His Phe His Val Pro Glu Gly Tyr Thr Leu Ala Gly Met Leu Ala Ile
 450 455 460
 Thr Leu Val Ser Tyr Leu Ile Ile Arg Lys Asn Tyr Gly Trp Ala Met
 465 470 475 480
 Val Gly Phe Thr Val Thr Ala Val Tyr Thr Leu Gln Leu Leu Thr Leu
 485 490 495
 Asn Gly Glu Gln Phe Ile Ile Ala Arg Leu Val Asp Thr Leu Ile Gly
 500 505 510
 Cys Leu Ile Ala Phe Gly Gly Met Val Trp Leu Trp Pro Gln Trp Gln
 515 520 525
 Ser Gly Leu Leu Arg Gln Asn Ala His Asp Ala Leu Glu Ala Asp Gln
 530 535 540
 Gln Ala Ile Arg Leu Ile Leu Ser Asp Asp Pro Gln Pro Ser Pro Leu
 545 550 555 560
 Ala Tyr Glu Arg Met Lys Val Asn Gln Ala His Asn Ala Leu Phe Asn
 565 570 575
 Ser Leu Asn Gln Ala Met Gln Glu Pro Gly Phe Asn Ala His Tyr Leu
 580 585 590
 Ala Asp Met Lys Leu Trp Val Thr His Ser Gln Phe Ile Val Glu His
 595 600 605
 Ile Asn Ala Met Thr Thr Leu Ala Arg Glu His Thr Met Leu Thr Pro
 610 615 620
 Asp Leu Ala Gln Arg Tyr Leu Gln Ser Cys Glu Ile Ala Leu Gln Arg
 625 630 635 640
 Cys Gln Gln Arg Leu Glu Tyr Asp Ala Pro Gly Glu Ser Gly Asp Ser
 645 650 655
 Asn Ile Leu Glu Ala Pro Glu Thr Leu Thr His Gly Pro Met Ser Thr
 660 665 670
 Leu Glu Gln His Leu Gln Arg Val Leu Gly His Leu Asn Thr Met His
 675 680 685
 Thr Ile Ser Ser Val Ala Trp Arg Gln Arg Pro His His Gly Ile Trp
 690 695 700
 Leu Thr Arg Arg Leu Lys Arg Thr Ala Tyr
 705 710 715

<210> 8137

<211> 646

<212> PRT

<213> Enterobacter cloacae

<400> 8137

Gln Ile Asn Ile Val Gly Thr Tyr Gly Ala Ser Met Ile Val Phe Ser
 1 5 10 15
 Ser Leu Gln Ile Arg Arg Gly Val Arg Val Leu Leu Asp Asn Ala Thr
 20 25 30

Ala	Thr	Ile	Asn	Pro	Gly	Gln	Lys	Val	Gly	Leu	Val	Gly	Lys	Asn	Gly
		35					40					45			
Cys	Gly	Lys	Ser	Thr	Leu	Leu	Ala	Leu	Leu	Lys	Asn	Glu	Ile	Ser	Ala
	50					55					60				
Asp	Gly	Gly	Asn	Phe	Thr	Phe	Pro	Gly	Asn	Trp	Gln	Leu	Ala	Trp	Val
65					70					75					80
Asn	Gln	Glu	Thr	Pro	Ala	Leu	Ser	Glu	Pro	Ala	Leu	Asp	Tyr	Val	Ile
			85						90					95	
Asp	Gly	Asp	Arg	Glu	Tyr	Arg	Lys	Leu	Glu	Ala	Glu	Leu	Asn	Ala	Ala
			100					105					110		
Asn	Glu	Arg	Asn	Asp	Gly	His	Ala	Ile	Ala	Thr	Val	His	Gly	Lys	Leu
			115				120					125			
Asp	Ala	Ile	Asp	Ala	Trp	Thr	Ile	Arg	Ser	Arg	Ala	Ser	Ser	Leu	Leu
	130					135					140				
His	Gly	Leu	Gly	Phe	Ser	Asn	Glu	Gln	Leu	Glu	Arg	Pro	Val	Ser	Asp
145					150					155					160
Phe	Ser	Gly	Gly	Trp	Arg	Met	Arg	Leu	Asn	Leu	Ala	Gln	Ala	Leu	Ile
				165					170					175	
Cys	Arg	Ser	Asp	Leu	Leu	Leu	Leu	Asp	Glu	Pro	Thr	Asn	His	Leu	Asp
			180					185					190		
Leu	Asp	Ala	Val	Ile	Trp	Leu	Glu	Lys	Trp	Leu	Lys	Ser	Tyr	Gln	Gly
		195					200					205			
Thr	Leu	Ile	Leu	Ile	Ser	His	Asp	Arg	Asp	Phe	Leu	Asp	Pro	Val	Val
	210					215					220				
Asp	Lys	Ile	Ile	His	Ile	Glu	Gln	Gln	Ser	Met	Phe	Glu	Tyr	Thr	Gly
225					230					235					240
Asn	Tyr	Ser	Ser	Phe	Glu	Arg	Gln	Arg	Ala	Thr	Arg	Leu	Ala	Gln	Gln
				245					250					255	
Gln	Ala	Met	Tyr	Glu	Ser	Gln	Gln	Gln	Arg	Val	Ala	His	Leu	Gln	Ser
			260					265					270		
Phe	Val	Asp	Arg	Phe	Lys	Ala	Lys	Ala	Ser	Lys	Ala	Lys	Gln	Ala	Gln
		275					280					285			
Ser	Arg	Ile	Lys	Met	Leu	Glu	Arg	Met	Glu	Met	Ile	Ala	Pro	Ala	His
	290					295					300				
Val	Asp	Asn	Pro	Phe	His	Phe	Ser	Phe	Arg	Glu	Pro	Glu	Ser	Leu	Pro
305					310					315					320
Asn	Pro	Leu	Leu	Lys	Met	Glu	Lys	Val	Ser	Ala	Gly	Tyr	Gly	Asp	Arg
				325					330					335	
Ile	Ile	Leu	Asp	Ser	Ile	Lys	Leu	Asn	Leu	Val	Pro	Gly	Ser	Arg	Ile
			340					345					350		
Gly	Leu	Leu	Gly	Arg	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Ile	Lys	Leu
		355					360					365			
Leu	Ala	Gly	Glu	Leu	Asn	Pro	Val	Ser	Gly	Glu	Ile	Gly	Leu	Ala	Lys
	370					375					380				
Gly	Ile	Lys	Leu	Gly	Tyr	Phe	Ala	Gln	His	Gln	Leu	Glu	Phe	Leu	Arg
385					390					395					400
Ala	Asp	Glu	Ser	Pro	Ile	Gln	His	Leu	Ala	Arg	Leu	Ala	Pro	Gln	Glu
				405					410					415	
Met	Glu	Gln	Lys	Leu	Arg	Asp	Tyr	Leu	Gly	Gly	Phe	Gly	Phe	Gln	Gly
			420					425					430		
Asp	Lys	Val	Thr	Glu	Asn	Thr	Ala	Arg	Phe	Ser	Gly	Gly	Glu	Lys	Ala
	435						440					445			
Arg	Leu	Val	Leu	Ala	Leu	Ile	Val	Trp	Gln	Arg	Pro	Asn	Leu	Leu	Leu
	450					455					460				
Leu	Asp	Glu	Pro	Thr	Asn	His	Leu	Asp	Leu	Asp	Met	Arg	Gln	Ala	Leu
465					470					475					480
Thr	Glu	Ala	Leu	Ile	Glu	Phe	Glu	Gly	Ala	Leu	Val	Val	Val	Ser	His
				485					490					495	
Asp	Arg	His	Leu	Ile	Arg	Ser	Thr	Thr	Asp	Asp	Leu	Tyr	Leu	Val	His
			500					505					510		
Gly	Gly	Lys	Val	Glu	Pro	Phe	Asp	Gly	Asp	Leu	Glu	Asp	Tyr	Gln	Gln

	515		520		525
Trp	Leu Thr Asp Val Gln Lys	Gln Glu Asn Gln Pro	Glu Glu Ser Ala		
	530	535	540		
Lys	Asp Asn Ala Asn Ser	Gln Ala Arg Lys Asp	Gln Lys Arg Arg		
545		550	555		560
Glu	Ala Glu Leu Arg Thr	Gln Thr Gln Pro	Leu Arg Lys Glu	Ile Ala	
	565	570		575	
Arg	Leu Glu Lys Glu Met	Glu Lys Leu Asn Ala	Thr Leu Ala Ala	Val	
	580	585		590	
Glu	Glu Lys Leu Gly Asp Ser	Glu Leu Tyr Asp	Gln Ser Arg Lys	Ala	
	595	600		605	
Glu	Leu Thr Asp Cys Leu	Gln Thr Gln Ala	Lys Thr Lys Ser	Ser Leu	
	610	615		620	
Glu	Glu Cys Glu Met Ala	Trp Leu Asp Ala	Gln Glu Lys Glu	Ala	
625		630	635		640
Met	Leu Gln Ala Asp				
	645				

<210> 8138

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8138

His	Ala Gly Arg Val Met Ser	Phe Asp Thr Thr Ser	Glu Ile Thr Phe
1	5	10	15
Arg	Lys Leu Ser Ile Phe Met	Thr Phe Met Glu Lys	Gly Asn Ile Ala
	20	25	30
Arg	Thr Ala Glu Thr Leu Gly	Leu Ser Gly Val Ser	Val His Arg Ala
	35	40	45
Leu	His Thr Leu Glu Glu Asn	Val Arg Cys Pro Leu	Phe Ala His Lys
	50	55	60
Gly	Arg Asn Leu Ile Ala Leu	Pro Ser Ala Trp Thr	Leu Leu Glu Tyr
65	70	75	80
Cys	Gln Glu Val Met Gln Val	Met Glu Arg Gly Leu	Glu Glu Ser Arg
	85	90	95
Lys	Ile Ala Gly Ile Gly Gln	Gly Arg Leu Arg Val	Gly Thr Leu Tyr
	100	105	110
Ser	Leu Thr Leu Glu Thr Val	Pro Arg Leu Ile Met	Gly Met Lys Leu
	115	120	125
Arg	Arg Pro Asp Leu Glu Met	Asp Leu Thr Met Gly	Ser Asn Glu Thr
	130	135	140
Leu	Leu His Met Leu Asp Glu	Gly Ser Leu Asp Ala	Ile Leu Ile Ser
145	150	155	160
Ile	Ser Glu Ser Asp Ile Asp	Arg Asn Ser Leu Glu	Val Leu Pro Leu
	165	170	175
Phe	His Asp Asp Ile Phe Leu	Ala Ala Pro Ala Ser	Ala Thr Leu Asn
	180	185	190
Thr	Ser Gly Pro Ala Asp Leu	Arg Asp Tyr Lys Asp	Gln Lys Phe Val
	195	200	205
Ala	Leu Ala Glu Gly Phe Ala	Thr Tyr Ala Gly Phe	Gln Glu Ala Phe
	210	215	220
His	Ile Ala Gly Phe Glu Pro	Glu Ile Val Thr Arg	Val Asn Asp Ile
225	230	235	240
Phe	Ser Met Leu Ser Leu Val	Gln Ala Gly Val Gly	Phe Thr Leu Met
	245	250	255
Pro	Gly Arg Met Lys Lys Val	Tyr Glu Asn Ser Val	Gln Leu Leu Lys
	260	265	270
Leu	Ala Gln Pro Tyr Gln Met	Gln Gln Leu Ile Ala	Ile Val Phe Ala
	275	280	285
Arg	Asn Arg Glu Gln Asp Pro	Ser Leu Arg Ala Leu	Ala Ala Glu Gly

290 295 300
 Arg Met Tyr Ala Arg Ser Leu Gln Asp Ser Ala
 305 310 315

<210> 8139
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 8139

Phe Leu Thr Arg Ile Ser Ile Ala Leu Met Thr Gln Ile Ile Pro Ser
 1 5 10 15
 Asp Phe Asp Ile Ala Ala Glu Glu Ser Ala Glu Phe Val Pro Met Arg
 20 25 30
 Gly Val Ala Asn Pro His Leu Gln Thr Met Leu Pro Arg Leu Ile Arg
 35 40 45
 Arg Lys Val Gln Phe Thr Pro His Trp Gln Arg Leu Asp Leu Pro Asp
 50 55 60
 Gly Asp Phe Leu Asp Leu Ala Trp Ser Glu Asp Pro Asp Arg Ala Arg
 65 70 75 80
 His Lys Pro Arg Leu Val Val Phe His Gly Leu Glu Gly Ser Leu His
 85 90 95
 Ser Pro Tyr Ala His Gly Leu Ile Glu Ala Ala Lys Ala Arg Gly Trp
 100 105 110
 Leu Gly Val Val Met His Phe Arg Gly Cys Ser Gly Glu Pro Asn Arg
 115 120 125
 Gln Lys Arg Ile Tyr His Ser Gly Glu Thr Glu Asp Gly Thr Trp Phe
 130 135 140
 Leu Arg Trp Leu Arg Asp Asn Phe Gly Glu Ala Pro Thr Ala Ala Val
 145 150 155 160
 Gly Tyr Ser Leu Gly Asn Met Leu Ala Cys Leu Leu Ala Lys Glu
 165 170 175
 Ser Asp Ala Val Pro Leu Asp Ala Ala Val Ile Val Ser Ala Pro Phe
 180 185 190
 Met Leu Glu Gln Cys Ser Tyr His Met Glu Lys Gly Phe Ser Arg Val
 195 200 205
 Tyr Gln Arg Tyr Leu Leu Asn Leu Leu Lys Ala Asn Ala Ala Arg Lys
 210 215 220
 Leu Lys Ala Tyr Pro Asp Thr Leu Pro Val Thr Leu Gln Gln Leu Lys
 225 230 235 240
 Arg Val Lys Arg Leu Arg Glu Phe Asp Asp Leu Ile Thr Ser Lys Ile
 245 250 255
 His Gly Phe Ala Asp Ala Ile Asp Tyr Tyr Arg Gln Cys Ser Ala Met
 260 265 270
 Pro Leu Leu Asn Gln Ile Thr Lys Pro Thr Leu Ile Ile His Ala Lys
 275 280 285
 Asp Asp Pro Phe Met Asp His His Ser Ile Pro Ala Pro Asp His Leu
 290 295 300
 Pro Ala Asn Val Glu Tyr Gln Leu Thr Gln Phe Gly Gly His Val Gly
 305 310 315 320
 Phe Val Gly Gly Thr Leu Arg Arg Pro Lys Met Trp Leu Glu Thr Arg
 325 330 335
 Ile Pro Asp Trp Leu Thr Ala Tyr Leu Asp Gly Lys Lys
 340 345 350

<210> 8140
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 8140

Leu Lys Ala Leu Ser Cys Ala Lys Ala Pro Ile Met Val Asn Met Asn
 1 5 10 15
 Val Arg Leu Asn Lys Arg Ser Thr Met Leu Ser Ala Ser Leu Lys Ala
 20 25 30
 Ala Thr Trp Cys Trp Tyr Gly Pro Asn Cys Met Arg Arg Ser Ile Ser
 35 40 45
 Cys Pro Ala Thr Arg Phe Met Ala Asp Leu Tyr Thr Phe Pro Val Arg
 50 55 60
 Glu Leu Leu Cys Leu Pro Asp Ile Arg Leu Leu Pro Leu Arg Val Arg
 65 70 75 80
 Val Gly Arg Glu Pro Leu Pro Pro Ala Ser Pro Ser Ala Arg Ser Ser
 85 90 95
 Pro Ser Leu Thr Tyr Gly Arg Pro Arg
 100 105

<210> 8141

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 8141

Cys Ser Asn Gln Gln Trp Pro Val Val Ala Glu Gly Tyr Ala Leu Phe
 1 5 10 15
 Ala Val Ser Pro Asp Ala Met Ala Ala Lys Gly Asp Pro Gln Val Leu
 20 25 30
 Met Asn Thr Phe Ala Gly Asn Ile Glu Leu Glu Leu Asp Ser Gln Lys
 35 40 45
 Ala Pro Val Ser Val Lys Asn Phe Leu Asp Tyr Val Asn Ser Gly Phe
 50 55 60
 Tyr Asn Asn Thr Thr Phe His Arg Val Ile Pro Gly Phe Met Ile Gln
 65 70 75 80
 Gly Gly Gly Phe Asn Glu Gln Met Gln Gln Lys Gln Pro Asn Pro Pro
 85 90 95
 Ile Lys Asn Glu Ala Asp Asn Gly Leu Leu Asn Lys Arg Gly Thr Ile
 100 105 110
 Ser Met Ala Arg Thr Ala Asp Lys Asp Ser Ala Thr Ser Gln Phe Phe
 115 120 125
 Leu Asn Val Ala Asp Asn Ala Phe Leu Asp His Gly Gln Arg Asp Phe
 130 135 140
 Gly Tyr Ala Val Phe Gly Lys Val Val Lys Gly Met Asp Val Ala Asp
 145 150 155 160
 Lys Ile Ser Gln Val Gln Thr His Asp Val Gly Pro Tyr Gln Asn Val
 165 170 175
 Pro Thr Lys Pro Val Val Ile Leu Ser Ala Lys Val Leu Pro
 180 185 190

<210> 8142

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8142

Ser Phe Val His Thr Gly Ile Ser Cys Pro Cys Leu Ser Ala Leu Pro
 1 5 10 15
 Ala Lys Ala Arg Phe Ala Ala Tyr Thr Cys Gly Lys Arg Thr Ile Gln
 20 25 30
 Gly Gly Val Val Lys Lys Leu Thr Asp Lys Gln Lys Ser Arg Leu Trp
 35 40 45
 Glu Gln Gln Arg Ser Val Asn Phe Gln Ala Ser Cys Leu Leu Glu Lys
 50 55 60
 Gly Lys Gly Pro Ala Glu Pro Asp Ile Glu Thr Leu Glu Leu Gly Pro

65					70				75					80	
Ser	Ala	Pro	Gly	Leu	Pro	His	Leu	Cys	Leu	Ile	His	Arg	His	Leu	Phe
				85					90					95	
Arg	Asn	Glu	Met	Lys	Gly	Ala	Gly	Glu	Leu	Arg	Thr	Ala	Glu	Ile	Ser
			100					105					110		
Lys	Gly	Asp	Ile	Pro	Phe	Cys	His	Phe	Glu	Tyr	Ile	Glu	Lys	Val	Gly
		115					120					125			
Asn	Glu	Leu	Met	Ala	Ser	Leu	Glu	Ser	Asp	Lys	Tyr	Leu	Val	Gly	Leu
		130				135					140				
Gln	Lys	Glu	Glu	Phe	Thr	Asp	Arg	Ile	Ser	His	Tyr	Tyr	Cys	Glu	Ile
145					150					155					160
Asn	Met	Leu	His	Pro	Phe	Met	Ser	Gly	Asn	Gly	Val	Ala	Gln	Arg	Ile
				165					170					175	
Phe	Phe	Glu	Gln	Leu	Ala	Ile	His	Ala	Gly	Tyr	Val	Leu	Asn	Trp	Gln
			180					185					190		
Gly	Ile	Asp	Pro	Asp	Asp	Trp	Ala	Ala	Ala	Asn	Gln	Ser	Gly	Ala	Met
		195					200					205			
Gly	Asp	Leu	Thr	Ala	Leu	Asn	Val	Ile	Phe	Ala	Lys	Val	Val	Ser	Glu
		210				215					220				
Ala	Arg	Glu	Ser	Ala											
225					230										

<210> 8143

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 8143

Asn	Arg	Ala	Ala	Ile	Phe	Ser	Gly	Ala	Ala	Met	Ile	Leu	Leu	Ile	Asp
1			5					10						15	
Asn	Tyr	Asp	Ser	Phe	Thr	Trp	Asn	Leu	Tyr	Gln	Tyr	Phe	Cys	Glu	Leu
		20					25					30			
Gly	Ala	Glu	Val	Val	Val	Arg	Arg	Asn	Asp	Glu	Ile	Ala	Leu	Asp	Asp
		35					40					45			
Ile	Asp	Ala	Leu	Ala	Pro	Gln	Lys	Ile	Val	Ile	Ser	Pro	Gly	Pro	Cys
		50				55					60				
Thr	Pro	Ser	Glu	Ser	Gly	Ile	Ser	Leu	Ala	Val	Ile	Gln	His	Tyr	Ala
65					70				75					80	
Gly	Lys	Leu	Pro	Ile	Leu	Gly	Val	Cys	Leu	Gly	His	Gln	Ala	Ile	Ala
				85				90						95	
Gln	Val	Phe	Gly	Ala	Thr	Ile	Val	Arg	Ala	Ala	Lys	Val	Met	His	Gly
		100					105					110			
Lys	Thr	Ser	Pro	Ile	Thr	His	Thr	Gly	Thr	Gly	Ala	Phe	Leu	Gly	Leu
		115					120				125				
Asn	Asn	Pro	Leu	Thr	Val	Thr	Arg	Tyr	His	Ser	Leu	Ile	Ile	Asp	Pro
	130					135					140				
Pro	Thr	Leu	Pro	Ala	Cys	Phe	Glu	Val	Thr	Ala	Trp	Ser	Glu	Thr	Gln
145					150					155					160
Glu	Ile	Met	Gly	Ile	Arg	His	Arg	Glu	Tyr	Asp	Leu	Glu	Gly	Val	Gln
			165					170						175	
Phe	His	Pro	Glu	Ser	Ile	Leu	Ser	Glu	Gln	Gly	His	Ala	Leu	Leu	Ala
			180				185						190		
Asn	Phe	Leu	Asn	Arg											
		195													

<210> 8144

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 8144

Leu	Tyr	Phe	His	Asn	Asn	Cys	Asp	Ile	Lys	Met	Asp	Gly	His	Asp	Met
1				5					10					15	
Ala	Thr	Glu	Gln	Pro	Ala	Ile	Thr	Arg	Ala	Thr	Phe	Asp	Glu	Val	Ile
			20					25					30		
Leu	Pro	Ile	Tyr	Ala	Pro	Ala	Glu	Phe	Ile	Pro	Val	Lys	Gly	Arg	Gly
		35					40					45			
Ser	Arg	Val	Trp	Asp	Gln	Gln	Gly	Asn	Glu	Tyr	Val	Asp	Phe	Ala	Gly
	50					55					60				
Gly	Ile	Ala	Val	Thr	Ala	Leu	Gly	His	Cys	His	Pro	Ala	Leu	Val	Asp
65					70					75					80
Ala	Leu	Lys	Thr	Gln	Gly	Glu	Thr	Leu	Trp	His	Thr	Ser	Asn	Val	Phe
				85					90					95	
Thr	Asn	Glu	Pro	Ala	Leu	Arg	Leu	Gly	Arg	Lys	Ile	Ile	Asp	Ala	Thr
			100					105					110		
Phe	Ala	Glu	Arg	Val	Leu	Phe	Met	Asn	Ser	Gly	Thr	Glu	Ala	Asn	Glu
	115						120					125			
Thr	Ala	Phe	Lys	Leu	Ala	Arg	Tyr	Tyr	Ala	Thr	Thr	Arg	His	Ser	Pro
	130					135					140				
Tyr	Lys	Thr	Lys	Ile	Ile	Ala	Phe	His	Asn	Ala	Phe	His	Gly	Arg	Ser
145					150					155					160
Phe	Phe	Thr	Val	Ser	Val	Gly	Gly	Gln	Pro	Lys	Tyr	Ser	Asp	Gly	Phe
				165					170					175	
Gly	Pro	Lys	Pro	Ala	Asp	Ile	Ile	His	Val	Pro	Phe	Asn	Asp	Leu	His
			180					185					190		
Ala	Val	Lys	Ala	Val	Met	Asp	Asp	His	Thr	Cys	Ala	Val	Val	Val	Glu
	195						200					205			
Pro	Ile	Gln	Gly	Glu	Gly	Gly	Val	Thr	Ala	Ala	Thr	Pro	Glu	Phe	Leu
	210					215					220				
Gln	Gly	Leu	Arg	Glu	Leu	Cys	Asp	Glu	His	Gln	Ala	Leu	Leu	Val	Phe
225					230					235					240
Asp	Glu	Val	Gln	Cys	Gly	Met	Gly	Arg	Thr	Gly	Asp	Leu	Phe	Ala	Tyr
			245						250					255	
Met	His	Tyr	Gly	Val	Thr	Pro	Asp	Ile	Leu	Thr	Ser	Ala	Lys	Ala	Leu
			260					265					270		
Gly	Gly	Gly	Phe	Pro	Val	Ser	Ala	Val	Leu	Thr	Thr	Gln	Asp	Ile	Ala
		275					280					285			
Ser	Ala	Phe	His	Val	Gly	Ser	His	Gly	Ser	Thr	Tyr	Gly	Gly	Asn	Pro
	290					295					300				
Leu	Ala	Cys	Ala	Val	Ala	Gly	Ala	Ala	Phe	Asp	Ile	Ile	Asn	Thr	Pro
					310					315					320
Asp	Val	Leu	Asn	Gly	Val	Asn	Ala	Lys	Arg	Asp	Leu	Phe	Val	Lys	His
			325						330					335	
Leu	Gln	Gln	Ile	Asp	Glu	Gln	Phe	Asp	Val	Phe	Ser	Glu	Ile	Arg	Gly
			340					345					350		
Met	Gly	Leu	Leu	Ile	Gly	Ala	Glu	Leu	Lys	Pro	Gln	Tyr	Lys	Gly	Arg
	355						360					365			
Ala	Arg	Asp	Phe	Leu	His	Ala	Ala	Ala	His	Glu	Gly	Val	Met	Val	Leu
	370					375					380				
Asn	Ala	Gly	Pro	Asp	Val	Met	Arg	Phe	Ala	Pro	Ser	Leu	Val	Val	Glu
385					390					395					400
Asp	Lys	Asp	Ile	Glu	Asp	Gly	Leu	Thr	Arg	Phe	Ala	Ala	Ala	Val	Ala
			405						410					415	
Lys	Ile	Val	Ser	Gly											
			420												

<210> 8145

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 8145

Val	Asn	Met	Gln	Ala	Arg	Val	Lys	Trp	Val	Glu	Gly	Leu	Thr	Phe	Leu
1			5						10					15	
Gly	Glu	Ser	Ala	Ser	Gly	His	Gln	Val	Leu	Met	Asp	Gly	Asn	Ser	Gly
			20				25						30		
Asp	Lys	Ala	Pro	Ser	Pro	Met	Glu	Met	Val	Leu	Met	Ala	Ala	Gly	Gly
		35					40					45			
Cys	Ser	Ala	Ile	Asp	Val	Val	Ser	Ile	Leu	Gln	Lys	Gly	Arg	His	Gly
	50					55					60				
Val	Thr	Asp	Cys	Glu	Val	Lys	Leu	Thr	Ser	Glu	Arg	Arg	Glu	Glu	Ala
65					70					75					80
Pro	Arg	Leu	Phe	Thr	His	Ile	Asn	Leu	His	Phe	Ile	Val	Thr	Gly	Lys
				85					90					95	
Glu	Leu	Lys	Asp	Ala	Ala	Val	Ser	Arg	Ala	Val	Asp	Leu	Ser	Ala	Glu
			100					105					110		
Lys	Tyr	Cys	Ser	Val	Ala	Leu	Met	Leu	Glu	Lys	Ala	Val	Asn	Ile	Thr
		115					120						125		
His	Ser	Tyr	Glu	Val	Ile	Glu	Ala								
	130						135								

<210> 8146

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 8146

Pro	Thr	Cys	Glu	Ile	Pro	Glu	Leu	Val	Met	Lys	Leu	Leu	Pro	Gln	Ile
1				5					10					15	
Gln	Val	Glu	Gly	Gly	Ala	Glu	Trp	Leu	Ala	Arg	Thr	Ala	Thr	Gln	Cys
			20					25					30		
Leu	Ile	Asp	Glu	Ala	Arg	Leu	Ser	Pro	Lys	Pro	Gly	Leu	Val	Asp	Ser
		35					40					45			
Arg	Gly	Asn	Gly	Ala	His	His	Asp	Leu	Ser	Leu	Ala	Leu	Met	Glu	Arg
	50					55					60				
Ser	Ala	Arg	Ser	Leu	Thr	Pro	Thr	Phe	Gln	Ala	Leu	Ala	Gln	Gln	Ser
65					70				75						80
Trp	Gln	Arg	Pro	Ala	Asp	Ile	Ala	Leu	Arg	Gln	Thr	Val	Gly	Arg	Leu
				85					90					95	
Gly	Arg	Glu	Gly	Glu	Arg	Gln	Met	Met	Ala	Ala	Thr	Asp	Gly	Val	Asn
			100					105					110		
Thr	His	Arg	Gly	Ala	Ile	Trp	Ala	Leu	Gly	Leu	Leu	Val	Ser	Ala	Val
		115					120					125			
Ala	Met	Leu	Gly	Gly	Asp	Ala	Arg	Ala	Gln	Thr	Val	Ala	Asn	Thr	Ala
	130					135						140			
Ala	Gln	Leu	Ala	Lys	Leu	Pro	Asp	Asp	Val	Ala	Pro	Lys	Val	Phe	Ser
145					150					155					160
Lys	Gly	Leu	Arg	Val	Thr	His	Arg	Tyr	Arg	Val	Pro	Gly	Ala	Arg	Glu
				165					170					175	
Glu	Ala	Gln	Gln	Ala	Phe	Pro	His	Ile	Met	Gln	Arg	Ala	Leu	Pro	Gln
			180					185					190		
Leu	Arg	Leu	Ser	Arg	Leu	Asn	Gly	Ser	Ser	Glu	Thr	Gln	Ala	Arg	Leu
		195					200					205			
Asp	Ala	Leu	Met	Ala	Ile	Met	Thr	Ser	Leu	Thr	Asp	Thr	Cys	Val	Leu
	210					215					220				
Ser	Arg	Ala	Gly	Met	Glu	Gly	Leu	Asp	Ala	Met	Gln	Asn	Gly	Ala	Arg
225					230					235					240
Ala	Val	Leu	Asn	Ala	Gly	Gly	Cys	Ala	Thr	Leu	Ala	Gly	Gln	Gln	Ala
				245					250					255	
Leu	Ala	Arg	Leu	Asp	Arg	Gln	Met	Leu	Ala	Leu	Asn	Ala	Ser	Pro	Gly
			260					265					270		
Gly	Ala	Ala	Asp	Leu	Leu	Ala	Ala	Thr	Leu	Phe	Leu	Asp	Arg	Val	Glu
		275					280						285		

Thr Pro Tyr Ser Lys His
290 295

<210> 8147
<211> 103
<212> PRT
<213> Enterobacter cloacae

<400> 8147
Glu Asp Val Met Glu Lys Ile Thr Leu Thr Val Pro Ala Ser Arg Glu
1 5 10 15
Val Ser Gly Arg Ala Leu Ala Gly Val Val Gly Ser Gly Asp Met Glu
20 25 30
Val Leu Phe Thr Ala Glu Pro Gly Gln Thr Leu Thr Ile Asp Ile Thr
35 40 45
Thr Ser Val Asp Asn Ser Arg Gly Arg Trp Glu Ala Leu Phe Asn Arg
50 55 60
Leu Gln Thr Val Ser Ser Leu Pro Ala Gly Lys Leu Thr Ile His Asp
65 70 75 80
Phe Gly Ala Thr Pro Gly Val Ala Arg Ile Arg Ile Glu Gln Val Phe
85 90 95
Glu Gly Val Asn His Ala
100

<210> 8148
<211> 276
<212> PRT
<213> Enterobacter cloacae

<400> 8148
Ser Ala Phe Cys Pro Gly Gly Glu Met Met Thr Asn Ser Ile Ser Arg
1 5 10 15
Gly Glu Leu Trp Leu Glu Thr Leu Ala Pro Asn Ala Lys Arg Leu Glu
20 25 30
Gly Leu Cys Pro Ser Val Gln Ala Ala Asp Gly Glu Leu Asn Gly Glu
35 40 45
Thr Val Arg Phe Val Ala Val Val Pro Asp Val Asn Asn His Phe Pro
50 55 60
Arg Ala Ala Gln Gly Glu Val Gly Leu Leu Glu Gly Trp Thr Leu Ala
65 70 75 80
Lys Val Val Ser Glu Thr Val Ala Ala Asp Ala Asp Lys Ala Val Lys
85 90 95
Arg Pro Ile Val Ala Val Ile Asp Val Pro Ser Gln Ala Tyr Gly Arg
100 105 110
Arg Glu Glu Ala Phe Gly Ile His Gln Ala Leu Ala Gly Ala Ala Ala
115 120 125
Ala Tyr Ala Asn Ala Arg Leu Ala Gly His Pro Val Ile Gly Leu Ile
130 135 140
Val Gly Lys Ala Met Ser Gly Ala Phe Leu Ala His Gly Tyr Gln Ala
145 150 155 160
Asn Arg Leu Ile Ala Phe Asn Asp Lys Gly Val Leu Ile His Ala Met
165 170 175
Gly Lys Glu Ser Ala Ala Arg Ile Thr Leu Arg Thr Val Glu Ala Leu
180 185 190
Glu Lys Leu Ala Ala Thr Ile Pro Pro Met Ala Tyr Asp Ile Ser Asn
195 200 205
Tyr Ala Thr Leu Gly Leu Leu Ser Asp Leu Leu Asp Ile Ser Asn Pro
210 215 220
Asp Ala Pro Ser Glu Ser Asp Leu Thr Arg Val Lys Thr Thr Leu Gln
225 230 235 240
Gln Ala Ile Ser Asp Ala Arg Gln Asp Thr Thr Leu Lys Asn Arg Leu

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<210> 8149
<211> 321
<212> PRT
<213> Enterobacter cloacae
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1	Met	Thr	Tyr	Val	Ile	Val	His	Ala	Leu	Ala	Pro	Ile	Phe	Val	Ile
5				5					10					15	
Met	Leu	Leu	Gly	Phe	Trp	Ala	Gly	Lys	Ala	Lys	Met	Val	Asp	Asn	Lys
20			20					25					30		
Asn	Val	Ser	Leu	Leu	Asn	Ile	Phe	Val	Met	Asp	Phe	Ala	Leu	Pro	Ala
35			35				40				45				
Ala	Leu	Phe	Ser	Ala	Thr	Val	Gln	Thr	Pro	Trp	Thr	Gly	Ile	Val	Ala
50						55					60				
Gln	Ser	Pro	Leu	Ile	Leu	Val	Leu	Thr	Leu	Ala	Met	Trp	Ile	Thr	Tyr
65					70					75					80
Ala	Val	Ile	Tyr	Phe	Leu	Ala	Thr	Asn	Val	Phe	Lys	Lys	Ser	Pro	Gln
85									90					95	
Asp	Ala	Ala	Val	Leu	Thr	Leu	Thr	Val	Ala	Leu	Pro	Asn	Tyr	Ala	Ala
100								105					110		
Leu	Gly	Leu	Pro	Ile	Leu	Gly	Ser	Val	Leu	Gly	Glu	Gly	Ser	Ser	Thr
115							120					125			
Ser	Leu	Ser	Val	Ala	Val	Ser	Ile	Ala	Cys	Gly	Ser	Val	Leu	Met	Thr
130						135					140				
Pro	Phe	Cys	Leu	Leu	Ile	Leu	Glu	Arg	Glu	Lys	Ala	Arg	Ala	Glu	Gly
145					150					155					160
Asn	Asn	Ser	Gly	Ser	Thr	Leu	Ser	Met	Leu	Pro	Val	Leu	Met	Trp	Arg
165									170					175	
Ser	Ile	Lys	Lys	Pro	Ile	Val	Met	Gly	Pro	Leu	Leu	Gly	Val	Ile	Leu
180								185					190		
Ser	Ala	Ile	Gly	Ile	Thr	Met	Pro	Glu	Leu	Val	Leu	Ala	Ala	Ile	Lys
195							200					205			
Pro	Leu	Gly	Leu	Ser	Ala	Thr	Ala	Ala	Ala	Leu	Phe	Leu	Thr	Gly	Val
210						215					220				
Ile	Leu	Ser	Ala	Arg	Lys	Leu	Gln	Ile	Asn	Thr	Met	Val	Ile	Thr	Ser
225					230					235					240
Thr	Ile	Ala	Lys	Leu	Leu	Ile	Gln	Pro	Ala	Ile	Ala	Trp	Gly	Ile	Val
245									250					255	
Leu	Ile	Phe	Gly	Leu	His	Gly	Ser	Val	Ala	Ile	Thr	Ala	Ile	Leu	Met
260								265					270		
Ile	Ala	Leu	Ser	Ala	Gly	Phe	Phe	Gly	Val	Val	Phe	Gly	Asn	Arg	Phe
275							280					285			
Gly	Val	Gln	Ser	Pro	Asp	Ala	Glu	Ala	Val	Leu	Leu	Leu	Ser	Ser	Ile
290						295					300				
Leu	Cys	Ile	Leu	Ser	Leu	Pro	Leu	Phe	Ile	Ser	Leu	Thr	Ser	Gly	Met
305					310					315					320

<400> 8150

Ala	Asp	Gly	Gly	Asp	Val	Pro	Tyr	Ala	Leu	Asp	Glu	Pro	Asp	Tyr	Tyr
1				5					10					15	
Leu	Leu	Gly	Thr	Ala	Ala	Gly	Ser	Glu	Ser	Ala	Gly	Glu	Pro	Cys	Gln
			20					25					30		
Gly	Leu	Trp	Arg	Met	Ala	Gly	Val	Thr	Asp	Ser	Gly	Gly	Arg	Thr	Leu
		35					40					45			
Met	Asp	Gly	Ser	Asn	Leu	Leu	Leu	Ala	Gly	Val	Leu	Phe	Leu	Phe	Ala
	50					55					60				
Ala	Val	Val	Ala	Val	Pro	Leu	Ala	Ala	Arg	Leu	Gly	Ile	Gly	Ala	Val
65					70				75						80
Leu	Gly	Tyr	Leu	Leu	Ala	Gly	Ile	Ala	Ile	Gly	Pro	Trp	Gly	Leu	Gly
				85					90					95	
Phe	Ile	Ser	Asp	Val	Asp	Glu	Ile	Leu	His	Phe	Ser	Glu	Leu	Gly	Val
			100					105					110		
Val	Phe	Leu	Met	Phe	Ile	Ile	Gly	Leu	Glu	Leu	Asn	Pro	Ser	Lys	Leu
		115					120					125			
Trp	Gln	Leu	Arg	Gln	Ser	Ile	Phe	Gly	Val	Gly	Ala	Ala	Gln	Val	Leu
	130					135						140			
Leu	Ser	Ala	Ala	Ile	Leu	Ala	Gly	Leu	Leu	Met	Leu	Thr	Gln	Phe	Ser
145					150					155					160
Trp	Gln	Ala	Ala	Val	Ile	Gly	Gly	Ile	Gly	Leu	Ala	Met	Ser	Ser	Thr
				165					170					175	
Ala	Met	Ala	Leu	Gln	Leu	Met	Arg	Asp	Lys	Gly	Met	Asn	Arg	Asn	Glu
			180					185					190		
Ala	Gly	Gln	Leu	Gly	Phe	Ser	Val	Leu	Leu	Phe	Gln	Asp	Leu	Ala	Val
		195					200					205			
Ile	Pro	Ala	Leu	Ala	Leu	Val	Pro	Leu	Leu	Ala	Gly	Ser	Gly	Asp	Asp
	210					215					220				
His	Phe	Asp	Trp	Met	Lys	Ile	Ser	Met	Lys	Val	Leu	Ala	Phe	Ala	Gly
225					230					235					240
Met	Leu	Ile	Gly	Gly	Arg	Phe	Leu	Leu	Arg	Pro	Val	Phe	Arg	Phe	Ile
				245					250					255	
Ala	Ala	Ser	Gly	Val	Arg	Glu	Val	Phe	Thr	Ala	Ala	Thr	Leu	Leu	Leu
			260					265					270		
Val	Leu	Gly	Ser	Ala	Leu	Phe	Met	Asp	Ala	Leu	Gly	Leu	Ser	Met	Ala
		275					280					285			
Leu	Gly	Thr	Phe	Ile	Ala	Gly	Val	Leu	Leu	Ala	Glu	Ser	Glu	Tyr	Arg
	290					295					300				
His	Glu	Leu	Glu	Thr	Ala	Ile	Asp	Pro	Phe	Lys	Gly	Leu	Leu	Leu	Gly
305					310					315					320
Leu	Phe	Phe	Ile	Ser	Val	Gly	Met	Ala	Leu	Asn	Leu	Gly	Val	Leu	Tyr
				325					330					335	
Thr	His	Leu	Leu	Trp	Val	Ile	Ala	Ser	Val	Ala	Val	Leu	Val	Ala	Val
			340					345					350		
Lys	Thr	Leu	Val	Leu	Tyr	Leu	Leu	Ala	Arg	Ile	Tyr	Gly	Leu	Arg	Ser
		355					360					365			
Ser	Glu	Arg	Met	Gln	Phe	Ser	Ser	Val	Leu	Ser	Gln	Gly	Gly	Glu	Phe
	370					375						380			
Ala	Phe	Val	Leu	Phe	Ser	Thr	Ala	Ser	Ser	Gln	Lys	Leu	Phe	Lys	Asp
385					390					395					400
Asp	Gln	Met	Ala	Leu	Leu	Leu	Val	Thr	Val	Thr	Leu	Ser	Met	Met	Thr
			405						410					415	
Thr	Pro	Leu	Leu	Met	Lys	Leu	Val	Asp	Lys	Leu	Leu	Ser	Arg	Arg	Leu
			420					425					430		
Asn	Pro	Ala	Asp	Asp	Glu	Asp	Glu	Ala	Pro	Trp	Val	Glu	Asp	Asp	Lys
		435					440					445			
Pro	Gln	Val	Ile	Val	Val	Gly	Phe	Gly	Arg	Phe	Gly	Gln	Val	Ile	Gly
	450					455					460				
Arg	Leu	Leu	Met	Ala	Asn	Lys	Met	Arg	Ile	Thr	Val	Leu	Glu	Arg	Asp
465					470					475					480
Ile	Ser	Ala	Val	Asn	Leu	Met	Arg	Lys	Tyr	Gly	Tyr	Lys	Val	Tyr	Tyr

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<210> 8151
<211> 557
<212> PRT
<213> Enterobacter cloacae
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Ile	Arg	Arg	Leu	Ile	Met	Leu	Ser	Gly	Gln	Thr	Pro	Thr	Arg	Gln	Trp
1				5					10					15	
Asn	Thr	Arg	Arg	Ser	Glu	Lys	Ala	Arg	Arg	Leu	Ala	Ser	Val	Pro	Val
			20					25					30		
Gln	Gly	Lys	Val	Leu	Pro	Thr	Gly	Asp	Leu	Val	Ala	Met	Leu	Glu	Lys
		35					40					45			
Leu	Ile	Ala	Pro	Gly	Asp	Lys	Val	Val	Leu	Glu	Gly	Asn	Asn	Gln	Lys
	50					55					60				
Gln	Ala	Asp	Phe	Leu	Ser	Arg	Ser	Leu	Ala	Glu	Val	Asn	Pro	Gln	Ile
65					70					75				80	
Val	His	Asp	Leu	His	Met	Ile	Met	Pro	Ser	Val	Gly	Arg	Ser	Glu	His
				85					90					95	
Leu	Asp	Ile	Phe	Glu	Lys	Gly	Ile	Ala	Arg	Lys	Leu	Asp	Phe	Ser	Phe
			100					105					110		
Ser	Gly	Thr	Gln	Ser	Leu	Arg	Ile	Ser	Gln	Leu	Leu	Glu	Asp	Gly	Gln
		115					120					125			
Leu	Glu	Ile	Gly	Ala	Ile	His	Thr	Tyr	Ile	Glu	Leu	Tyr	Ser	Arg	Leu
	130					135					140				
Tyr	Val	Asp	Leu	Ser	Pro	Asn	Val	Ala	Leu	Ile	Ala	Gly	Phe	Lys	Ala
145					150					155				160	
Asp	Arg	Lys	Gly	Asn	Leu	Tyr	Thr	Gly	Ala	Ser	Thr	Glu	Asp	Thr	Pro
				165					170					175	
Ala	Leu	Val	Glu	Ala	Ala	Ala	Phe	His	Asp	Gly	Ile	Val	Ile	Ala	Gln
			180					185					190		
Val	Asn	Glu	Leu	Val	Asp	Asp	Glu	Cys	Asp	Leu	Pro	Arg	Val	Asp	Ile
		195					200					205			
Pro	Gly	Ser	Trp	Ile	Asp	Phe	Val	Val	Val	Ala	Asp	Lys	Pro	Phe	Phe
	210					215					220				
Ile	Glu	Pro	Leu	Phe	Thr	Arg	Asp	Pro	Arg	Leu	Ile	Lys	Gln	Glu	His
225					230					235				240	
Ile	Leu	Met	Ala	Met	Met	Ala	Ile	Lys	Gly	Ile	Tyr	Ala	Glu	His	Gln
				245					250					255	
Val	Gln	Ser	Leu	Asn	His	Gly	Ile	Gly	Phe	Asn	Thr	Ala	Ala	Ile	Glu

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<210> 8152
<211> 279
<212> PRT
<213> Enterobacter cloacae
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<400> 8152															
Ile	Met	Arg	Asp	Asp	Ser	Ser	Phe	Ile	Glu	Leu	Lys	Ala	Arg	Gln	Arg
1				5					10					15	
Ala	Gln	Ala	Leu	Leu	Asp	Asp	Gly	Ser	Tyr	Arg	Glu	Leu	Leu	Asp	Pro
			20					25					30		
Phe	Glu	Gly	Ile	Ile	Ser	Pro	Trp	Leu	Gly	Pro	Gln	Gly	Ile	Val	Pro
		35					40					45			
Gln	Ala	Asp	Asp	Gly	Met	Val	Val	Ala	Lys	Gly	Thr	Ile	Asn	Gly	Gln
	50					55					60				
Pro	Ala	Val	Val	Val	Ala	Ile	Glu	Gly	Thr	Phe	Gln	Gly	Gly	Ser	Met
65					70					75					80
Gly	Glu	Val	Ser	Gly	Ala	Lys	Met	Ala	Ala	Ala	Leu	Glu	Leu	Ala	Ala
				85				90						95	
Glu	Asp	Asn	Arg	Asn	Gly	Ile	Pro	Thr	Gln	Ala	Val	Leu	Cys	Leu	Glu
		100						105					110		
Thr	Gly	Gly	Val	Arg	Leu	Gln	Glu	Ala	Asn	Leu	Gly	Leu	Ala	Ala	Ile
		115					120					125			
Ala	Asp	Ile	His	Ala	Ala	Ile	Val	Asp	Leu	Arg	Arg	Tyr	Thr	Pro	Val

130		135		140
Val Gly Ile Val Ala Gly Thr Val Gly Cys Phe Gly Gly Met Ser Ile				
145		150		155
Ala Ala Ala Leu Cys Ser Tyr Leu Ile Val Thr Arg Glu Ala Arg Leu				
	165		170	
Gly Leu Asn Gly Pro Gln Val Ile Glu Gln Glu Ala Gly Ile Glu Glu				
	180		185	
Tyr Asp Ser Arg Asp Arg Pro Phe Ile Trp Ser Met Thr Gly Gly Glu				
	195		200	
Val Arg Tyr Glu Ser Gly Leu Val Asp Ala Leu Val Gly Asp Gly Val				
	210		215	
Asn Ala Val Lys Ala Ala Met Asn Glu Ala Ile Ala Lys Gly Val Pro				
225		230		235
Ala Lys His Arg Thr Asp Asn Tyr Asp Asp Tyr Leu Asn Arg Leu Thr				
	245		250	
Asn Phe Asp Thr Arg Lys Gln Ala Asp Ala Glu Gln Ile Lys Ala Leu				
	260		265	
Phe Ala Arg Glu Val Lys				270
	275			

<210> 8153

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8153

Leu Ala Gly Ser Ala Gln Ser Cys Val Val Pro Gly Gly Tyr Thr Gly				
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Gly Tyr Ala Arg Gly Arg Ile Arg Ala Gly Gly Met Val Thr Arg Arg				
	20		25	30
Gln Asn Ala Ala Lys Asn Ala Ile Trp Ala Ala Pro Gly Ser Gly Ser				
	35		40	45
Met Ala Gln Gly Gly Val Met Lys Ile Leu Phe Thr Phe Pro Gly Gln				
	50		55	60
Gly Thr Gln His Glu Gly Met Leu Gln Asn Leu Pro Gly Thr Glu Leu				
	65		70	75
Glu Gln Ala Arg Ala Val Leu Gly Ala Glu Val Asp Thr Leu Asp Ser				
	85		90	95
Ala Ser Ser Leu Thr His Thr Arg Ala Val Gln Leu Ser Leu Leu Ile				
	100		105	110
Ala Gly Val Ala Trp Ala Arg Glu Leu Glu Arg Arg Gly Val Ser Pro				
	115		120	125
Asp Ile Val Ser Gly Leu Ser Ile Gly Ala Tyr Pro Ala Ala Val Ile				
	130		135	140
Ala Gly Ala Leu Asp Phe Thr Asp Ala Leu Lys Leu Val Ala Leu Arg				
	145		150	155
Gly Asp Leu Met Glu Gln Ala Tyr Pro His Gly Tyr Gly Leu Thr Ala				
	165		170	175
Ile Met Gly Leu Thr Leu Pro Gln Val Glu Asn Leu Ile Gln Gly Thr				
	180		185	190
Gly Thr Tyr Ile Ala Asn Leu Asn Ala Glu Thr Gln Ile Val Ile Ala				
	195		200	205
Gly Ala Asp Asp Gly Met Ala Gln Val Ala Glu Arg Ala Leu Ala Lys				
	210		215	220
Gly Ala Asn Lys Ala Lys Arg Leu Ala Val Ser Val Pro Ser His Cys				
	225		230	235
Glu Leu Leu Ala Glu Pro Ala Gln Lys Leu Ala Ala Ala Phe Glu Ser				
	245		250	255
Val Thr Leu Ser Arg Pro Arg Cys Ala Tyr Leu Ser Gly Ser Thr Gly				
	260		265	270
Arg Val Leu Trp Gln Pro Glu Lys Ile Ala Asp Asp Leu Ala Met Asn				

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<210> 8154
<211> 264
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Leu	Gly	Leu	Glu 5	Ala	Ile	His	Lys	Ala 10	Leu	Gln	Val	Arg	His 15	Ala
Leu	Leu	Leu	Ala 20	Phe	Ile	His	Arg	Leu 25	Leu	Leu	Gly	Lys	Ala 30	Arg	Arg
Ala	Leu	Ala 35	Leu	Glu	Arg	Ala 40	Val	Val	Ala	Gly	Val	Phe 45	Glu	His	Ala
Leu	Leu	Phe	Asp	Met	Asn	Asp 55	Phe	Ile	His	His	Arg 60	Ile	Glu	Glu	Val
Ala 65	Val	Val	Gly	Asp	Gln 70	Asn	Gln	Ser	Ala	Leu 75	Ile	Ala	Leu	Glu	Pro 80
Leu	Leu	Gln	Pro	Asn 85	Asn	Arg	Ile	Glu 90	Ile	Glu	Val	Val	Gly 95	Gly	Phe
Ile	Glu	Gln 100	Gln	Glu	Val	Gly	Ala 105	Ala	Asp	Gln	Arg	Leu 110	Arg	Gln	Val
Lys	Ala	His 115	Thr	Pro	Ala	Ala 120	Gly	Glu	Ile	Ala	His 125	Arg	Ala	Phe	Lys
Leu	Phe 130	Val	Ala	Glu	Thr	Gln 135	Ala	Val	Gln	Gln	Ala 140	Gly	Gly	Ala	Gly
Ala 145	Asn	Gly	Pro	Gly	Ile 150	Asp	Gly	Val	Gln	Leu 155	Ala	Val	Asp	Gly	Gly 160
Asp	Gly	Val	Ala 165	Val	Val	Ala	Phe	Val 170	Gly	Gly	Val	Glu	Leu	Cys 175	Phe
Glu	Leu	Ala 180	Val	Phe	Thr	Val	Ala 185	Val	Asp	Asn	Ile 190	Val	Glu	Arg	Gly
Phe	Ala 195	Gln	Arg	Gly	Arg	Leu 200	Leu	Val	His	Pro	Gly 205	Glu	Leu	Pro	Val
Ala 210	Arg	Glu	Gly	Lys	Val	Thr 215	Ala	Ile	Arg	Ala	Tyr 220	Leu	Val	Phe	Gln
Gln 225	Cys	Gln	Gln	Gly 230	Gly	Phe	Thr	Ala	Ala 235	Val	Phe	Ala	Asp	Gln	Pro 240
His	Phe	Leu	Ala 245	Arg	Val	Asp	Gly	Ser	Ser 250	Arg	Val	Ile	Gln	Gln	Asp 255
Ala	His	Ala 260	Ala	Thr	Asn	Leu									

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<210> 8155
<211> 199
<212> PRT
<213> Enterobacter cloacae
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Pro Lys Thr Thr Thr Ile His Lys Asn Arg Thr Gly Arg Gly Met Met
1 5 10 15

Ser Gln Thr Ala Lys Val Leu Leu Leu Tyr Ala His Pro Glu Ser Gln
 20 25 30
 Asp Ser Val Ala Asn Arg Val Leu Leu Lys Pro Ala Thr Gln Leu Ser
 35 40 45
 Asn Val Thr Val His Asp Leu Tyr Ala His Tyr Pro Asp Phe Phe Ile
 50 55 60
 Asp Ile Pro Tyr Glu Gln Glu Leu Leu Arg Gln His Asp Val Ile Val
 65 70 75 80
 Phe Gln His Pro Leu Tyr Thr Tyr Ser Cys Pro Ala Leu Leu Lys Glu
 85 90 95
 Trp Leu Asp Arg Val Leu Ser Arg Gly Phe Ser Ser Gly Val Gly Gly
 100 105 110
 Asn Gln Leu Ala Gly Lys Tyr Trp Arg Ser Val Ile Thr Thr Gly Glu
 115 120 125
 Pro Glu Ser Ala Tyr Arg His Asp Gly Leu Asn Arg Tyr Pro Met Ser
 130 135 140
 Asp Ile Leu Arg Pro Phe Glu Leu Thr Ala Ala Met Cys Arg Met His
 145 150 155 160
 Trp Met Ser Pro Ile Ile Ile Tyr Trp Ala Arg Arg Gln Asp Pro Lys
 165 170 175
 Ala Leu Ala Ser His Ala Arg Ala Tyr Gly Glu Trp Leu Ala Ser Pro
 180 185 190
 Ile Pro Ala Gly Gly Arg
 195

<210> 8156

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 8156

Pro Glu Leu Thr Gly Pro Val Asn His Asp Gly Phe Thr Val Gly Gly
 1 5 10 15
 Asp Gln Val Leu Ile Phe Gln His Leu Gln Asp Thr Ala His Cys Phe
 20 25 30
 Thr Gly Ala Ala Asp Asp Leu Thr Asp Phe Leu Ala Gly Asn Phe Asn
 35 40 45
 Leu His Thr Val Arg Val Ser His Gly Val Trp Leu Phe Arg Gln Val
 50 55 60
 Gln Gln Arg Leu Arg Asp Thr Thr Gly Tyr Val Gln Glu Gly Glu Val
 65 70 75 80
 Thr Tyr Leu Leu Arg Gly His Leu Gln Thr Ala Cys His Leu Gly Arg
 85 90 95
 Glu Thr His Gln Asp Val Arg Val Asp Leu Asn Gln Leu Thr Glu Phe
 100 105 110
 Leu Ile Arg Asn Phe Ser His Phe Thr Cys Cys Phe Cys Thr Asn Pro
 115 120 125
 Gly Ala Thr Phe Leu Ala Phe Phe Lys Gln Ala Gln Phe Thr Asp Lys
 130 135 140
 Ile Ala Leu Val Gln Ile Arg Lys Asp His Leu Phe Pro Phe Phe Ile
 145 150 155 160
 Phe Asp Gln His Gly His Arg Ala Phe Asn Asp Val Ile Gln Arg Phe
 165 170 175
 Arg Phe Phe Thr Leu Val Asn Gln Arg Ala Leu
 180 185

<210> 8157

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 8157

Trp Val Leu Met Asn Val Ala Met Arg Gln Glu Pro Phe Glu Ser Arg
 1 5 10 15
 Val Cys Leu Arg Phe Ala Lys His His Ala Leu Leu Ser Ser Val Ile
 20 25 30
 Ser Cys His Gln Ser His Lys Met His Pro Asp Ser Gly Val Ala Ile
 35 40 45
 Glu Phe Leu Pro Ile Pro Gly Lys Ser Ala Val Val Thr Phe Arg Ser
 50 55 60
 Gln
 65

<210> 8158

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 8158

Ser Arg Ala Ala Val Glu Leu His Thr Val Tyr Pro Val Ala Ala Ala
 1 5 10 15
 Val Tyr Leu Ala Asp Phe Arg Asn Val Ile Met Thr Thr Thr Leu Arg
 20 25 30
 Pro His Asp Leu Ile Trp Leu Thr Ala Arg Asp Ala Leu Glu Gly Ile
 35 40 45
 Thr Glu Ser Trp Val Asp Ala Ala Trp His Thr Gly Leu Pro Val Val
 50 55 60
 Val Arg Arg Asp Val Asp Asn Glu Gly Arg Ile Pro Val Gly Val Arg
 65 70 75 80
 Gly Leu Arg Arg Asp Gln Arg Ala Ala Gly Trp Val Lys Pro Glu Asn
 85 90 95
 Val Leu Arg Val Val Ser Pro Glu Asp Leu Ser Val Ala Ala Asp Leu
 100 105 110
 Leu Arg Ser Pro Phe Ile Thr Gln Pro Pro Val Gln Val Ala Leu Gln
 115 120 125
 Leu Ala Gln Gln Ser Trp Pro Trp Thr Trp Gly Ile Thr Gly Ser Thr
 130 135 140
 Gly Tyr Ala Leu Ala Thr Gly Ile Pro Val Ile His Ala Asp Ser Asp
 145 150 155 160
 Leu Asp Leu Leu Ile Arg Ala Pro Cys Thr Val Ser Pro Glu Ala Phe
 165 170 175
 Thr Asp Trp Gln Ala Gln Leu Ser Arg Ala Leu Cys Arg Ala Asp Thr
 180 185 190
 Gln Val Asp Thr Pro Glu Gly Gly Phe Ala Leu Ala Glu Trp Leu Arg
 195 200 205
 Asp Gly Lys Thr Leu Leu Lys Thr Gln Tyr Gly Pro Arg Leu Val Ala
 210 215 220
 Asp Pro Trp His Arg Glu Glu
 225 230

<210> 8159

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 8159

Val Phe Leu Ser Leu Arg Val His Gly Cys Arg Phe Pro Leu Gln Ser
 1 5 10 15
 Ala Pro Ala Ile Phe Pro Arg Ser Gly Asp Ile Met Lys Val Ala Lys
 20 25 30
 Asp Leu Val Val Ser Leu Ala Tyr Gln Val Arg Thr Glu Asp Gly Val
 35 40 45

Leu Val Asp Glu Ser Pro Val Ser Ala Pro Leu Asp Tyr Leu His Gly
 50 55 60
 His Gly Ser Leu Ile Ser Gly Leu Glu Thr Ala Leu Glu Gly His Glu
 65 70 75 80
 Val Gly Asp Lys Phe Asp Val Ala Val Gly Ala Asn Asp Ala Tyr Gly
 85 90 95
 Gln Tyr Asp Asp Asn Leu Val Gln Arg Val Pro Lys Asp Val Phe Met
 100 105 110
 Gly Val Asp Glu Leu Gln Val Gly Met Arg Phe Leu Ala Glu Thr Asp
 115 120 125
 Gln Gly Pro Val Pro Val Glu Ile Thr Glu Val Glu Asp Asp His Val
 130 135 140
 Val Val Asp Gly Asn His Met Leu Ala Gly Gln Asn Leu Lys Phe Asn
 145 150 155 160
 Val Glu Val Val Ala Ile Arg Glu Ala Thr Glu Glu Glu Leu Ala His
 165 170 175
 Gly His Val His Gly Ala His Gly His Asp His Asp His Asp His Gly
 180 185 190
 His Asp Gly Cys Cys Gly Gly His Gly His Asp His Gly His Asp His
 195 200 205
 Gly His Gly Lys Gly Gly Cys Gly Asn Gly Gly Cys Gly Cys His
 210 215 220

<210> 8160

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 8160

Arg Val Glu Gly Gly Cys Arg Tyr Ala Thr Thr Asp Ala Gly Arg Arg
 1 5 10 15
 Leu Met Ser Asn Ala Pro Gln Leu Tyr Ala Leu Tyr Gln Gln Leu Leu
 20 25 30
 Glu Gln Ser Gln Leu Met Leu Arg Leu Ala Arg Gln Gly Leu Trp Asp
 35 40 45
 Asp Leu Ile Ile Cys Glu Thr Asp Tyr Val Asn Ala Val His Ser Leu
 50 55 60
 Ala Arg Leu Thr Gln Glu Ser Glu Pro Ser Thr Gln Ile Gln Glu Gln
 65 70 75 80
 Leu Arg Pro Thr Leu Arg Val Ile Leu Asp Asn Glu Gly Gln Val Lys
 85 90 95
 Thr Leu Leu Gln Ala Arg Met Asp Glu Leu Ala Lys Leu Val Gly Gln
 100 105 110
 Ser Ser Ile Gln Lys Thr Val Leu Ser Thr Tyr Gly Asn Gln Gly Gly
 115 120 125
 His Val Leu Val Pro Gln Ser Asn Ser Asp Ile Asn
 130 135 140

<210> 8161

<211> 571

<212> PRT

<213> Enterobacter cloacae

<400> 8161

Arg Lys Pro Pro Gly Phe Lys Arg Cys Ala Met Ser Ala Thr Ala Ala
 1 5 10 15
 Ser Thr Ala Pro Gln Asn Lys Ser Leu Glu Trp Met Asn Arg Leu Arg
 20 25 30
 Ala Asn Pro Lys Ile Pro Leu Ile Val Ala Gly Ala Ala Ile Ala
 35 40 45
 Ile Val Val Ala Met Val Leu Trp Ala Lys Ser Pro Asp Tyr Arg Thr

50	55	60
Leu Tyr Ser Asn Leu Ser Asp Gln Asp Gly Gly Ala Ile Val Thr Gln		
65	70	75
Leu Thr Gln Met Asn Ile Pro Tyr Arg Phe Ala Asp Asn Gly Gly Ala		
	85	90
Leu Glu Val Pro Ala Asp Lys Val His Glu Leu Arg Leu Arg Leu Ala		
	100	105
Gln Gln Gly Leu Pro Lys Gly Gly Ala Val Gly Phe Glu Leu Leu Asp		
	115	120
Gln Glu Lys Phe Gly Ile Ser Gln Phe Ser Glu Gln Val Asn Tyr Gln		
	130	135
Arg Ala Leu Glu Gly Glu Leu Ala Arg Thr Ile Glu Thr Leu Gly Pro		
145	150	155
Val Lys Ser Ala Arg Val His Leu Ala Met Pro Lys Pro Ser Leu Phe		
	165	170
Val Arg Glu Gln Lys Ser Pro Ser Ala Ser Val Thr Val Asn Leu Glu		
	180	185
Pro Gly Arg Ala Leu Asp Glu Gly Gln Ile Ser Ala Val Thr His Leu		
	195	200
Val Ser Ser Ala Val Ala Gly Leu Pro Pro Gly Asn Val Thr Leu Val		
	210	215
Asp Gln Ser Gly His Leu Leu Thr Gln Ser Asn Thr Ala Gly Arg Asp		
225	230	235
Leu Asn Asp Ala Gln Leu Lys Tyr Ala Ala Asp Val Glu Gly Arg Leu		
	245	250
Gln Arg Arg Ile Glu Ala Ile Leu Gly Pro Val Val Gly Ser Ser Asn		
	260	265
Val His Ala Gln Val Thr Ala Gln Ile Asp Phe Ser Asn Lys Glu Gln		
	275	280
Thr Glu Glu Gln Tyr Ala Pro Asn Gly Asp Ala Ser Arg Ala Val Leu		
	295	300
Arg Ser Arg Gln Ile Asn Glu Thr Glu Gln Val Gly Gly Gln Tyr Pro		
305	310	315
Gly Gly Val Pro Gly Ala Leu Ser Asn Gln Pro Ala Pro Ala Asn Ala		
	325	330
Ala Pro Ile Ser Thr Pro Pro Ala Asn Pro Gln Asn Gly Gln Gln Thr		
	340	345
Asn Gln Gln Thr Thr Ser Thr Ala Asn Ser Thr Gly Pro Arg Asn Ser		
	355	360
Ser Arg Asn Glu Thr Thr Asn Tyr Glu Val Asp Arg Thr Ile Arg His		
	375	380
Thr Lys Leu Asn Thr Gly Asp Ile Gln Arg Leu Ser Val Ala Val Val		
385	390	395
Val Asn Tyr Lys Thr Leu Pro Asp Gly Lys Pro Leu Pro Leu Thr Ala		
	405	410
Glu Gln Met Lys Gln Ile Glu Asp Leu Thr Arg Glu Ala Met Gly Phe		
	420	425
Ser Glu Lys Arg Gly Asp Thr Leu Asn Val Val Asn Ser Pro Phe Asn		
	435	440
Pro Val Asp Glu Thr Gly Gly Glu Leu Pro Phe Trp Gln Gln Gln Ala		
	450	455
Phe Phe Asp Gln Leu Met Ser Ala Gly Arg Trp Leu Leu Val Leu Ile		
465	470	475
Val Ala Trp Leu Leu Trp Arg Lys Gly Val Arg Pro Gln Leu Gln Arg		
	485	490
Arg Ala Glu Ala Glu Lys Ala Ala Leu Glu Gln Lys Asn Ala Arg Pro		
	500	505
Asp Glu Glu Glu Ala Val Glu Val Arg Leu Ser Lys Asp Glu Gln Met		
	515	520
Gln Gln Arg Arg Ala Asn Gln Arg Met Gly Ala Glu Val Met Ser Gln		
	530	535
		540

Arg Ile Arg Glu Met Ser Asp Asn Asp Pro Arg Val Val Ala Leu Val
 545 550 555 560
 Ile Arg Gly Trp Met Gly Asn Glu His Glu
 565 570

<210> 8162

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 8162

Met Ile Thr Leu Gln Gln Leu Leu Met Thr Asp Ser Asp Pro Ser Gly
 1 5 10 15
 Gly Thr Leu Ala Gly Lys Gly Ala Glu Gly Ala Gln Asp Phe Leu Ser
 20 25 30
 Leu Leu Ala Gly Ala Leu Thr Glu Thr Thr Gly Lys Gly Lys Asp Ala
 35 40 45
 Pro Leu Thr Leu Ala Asp Leu Lys Ala Ala Gly Ser Lys Leu Ser Thr
 50 55 60
 Ala Ala Gln Glu Lys Asn Gly Asp Thr Thr Leu Gln Ala Lys Ile Ala
 65 70 75 80
 Glu Leu Leu Ser Arg Gln Glu Thr Leu Thr Gly Glu Asp Thr Ala Val
 85 90 95
 Ser Leu Gln Ser Leu Val Ser Gly Leu Lys Pro Ala Ala Asn Thr Asp
 100 105 110
 Ala Leu Lys Ala Leu Thr Gln Pro Glu Ala Lys Thr Asn Ser Glu Thr
 115 120 125
 Thr Thr Glu Glu Glu Glu Leu Ala Gly Leu Ser Ala Leu Met Ala Met
 130 135 140
 Leu Pro His Gln Gln Thr Thr Pro Val Ala Thr Gln Pro Ala Ser
 145 150 155 160
 Thr Gly Glu Ile Ala Pro Arg Ala Ala Leu Pro Ser Ala Leu Ala Gln
 165 170 175
 Thr Asp Asn Gly Gln His Gln Pro Leu Ser His Ala Leu Thr Gly Gln
 180 185 190
 Glu Lys Met Pro Val Gln Asp Ser Asp Thr Ser Leu Pro Ala Thr Ala
 195 200 205
 Ala Val Thr Pro Ala Val Ala Val Ala Glu Lys Gln Asp Val Ala
 210 215 220
 Ser Ala Ala Ser Pro Ala Ala Ser Pro Thr Ala Thr Leu Ala Pro Ile
 225 230 235 240
 Val Ser His Leu Ala Pro Ser Gln Pro Ala Ala Thr Val Ala Thr Ala
 245 250 255
 Pro Val Leu Ser Gln Pro Leu Gly Thr His Glu Trp Gln Gln Asn Leu
 260 265 270
 Ser Gln His Ile Thr Leu Phe Thr Arg Gln Gly Gln Gln Thr Ala Glu
 275 280 285
 Leu Arg Leu His Pro Glu Asp Leu Gly Gln Val Gln Ile Ser Leu Lys
 290 295 300
 Leu Asp Asp Asn Gln Ala Gln Leu Gln Met Val Ser Pro His Ser His
 305 310 315 320
 Val Arg Ala Ala Leu Glu Ala Ala Leu Pro Ile Leu Arg Thr Gln Leu
 325 330 335
 Ala Glu Asn Gly Ile Gln Leu Ser Gln Ser Ser Val Ser Ser Glu Gly
 340 345 350
 Phe Ala Gly Gln Gln Gln Ser Ser Ser Gly Gln Gln Gln His Ala Ser
 355 360 365
 Arg Ser Gly Gln His Gly Gly Phe Asn Asp Glu Ser Glu Glu Leu Leu
 370 375 380
 Pro Ala Pro Ala Ala Leu Gln Ser Ala Ala Arg Gly Ser Arg Ala Val
 385 390 395 400

Asp Ile Phe Ala

405

<210> 8163

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 8163

Ile	Arg	Arg	Thr	Tyr	His	Arg	His	His	Tyr	Pro	Phe	Arg	Thr	Tyr	Ala
1				5					10					15	
Ser	Ser	Glu	Pro	Leu	Ser	Met	Lys	Thr	Gln	Ala	Thr	Leu	Ser	Ala	Pro
			20					25					30		
Ser	Ala	Val	Pro	Gly	Ser	Pro	Leu	Leu	Gln	Val	Ser	Gly	Ala	Leu	Phe
		35					40					45			
Gly	Ile	Ile	Ala	Phe	Ile	Leu	Ile	Ala	Ala	Trp	Leu	Ala	Lys	Arg	Phe
	50					55					60				
Gly	Leu	Ala	Gly	Lys	Thr	Ala	Gly	Thr	Arg	Gly	Leu	Lys	Val	Ser	Ala
65					70				75						80
Ser	Thr	Pro	Leu	Gly	Pro	Arg	Glu	Arg	Val	Val	Ile	Val	Glu	Val	Glu
				85					90					95	
Asp	Ala	Arg	Leu	Val	Leu	Gly	Val	Thr	Ala	Ser	Ser	Ile	Asn	Val	Leu
			100					105					110		
His	Thr	Leu	Pro	Pro	Ala	Pro	Ala	Thr	Val	Glu	Ala	Asn	Ala	Gln	Ala
		115					120					125			
Pro	Ala	Asp	Phe	Gln	Ser	Val	Met	Lys	Ser	Leu	Leu	Lys	Arg	Pro	Gly
	130					135					140				
Arg	Ser														
145															

<210> 8164

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 8164

Trp	Phe	Arg	Pro	Arg	Pro	Leu	Pro	Cys	Pro	Leu	Arg	Ser	Cys	Cys	Ser
1				5					10					15	
Cys	Trp	Ser	Thr	Ala	Gly	Ser	Cys	Trp	Ser	Ala	Arg	Trp	Arg	Arg	Val
			20					25					30		
Ser	Thr	Val	Glu	Glu	Arg	Ala	Met	Thr	Pro	Glu	Ser	Val	Met	Met	Met
		35					40					45			
Gly	Thr	Glu	Ala	Met	Lys	Val	Ala	Ile	Ala	Val	Ala	Ala	Pro	Leu	Leu
	50					55					60				
Leu	Val	Ala	Leu	Val	Thr	Gly	Leu	Ile	Ile	Ser	Ile	Leu	Gln	Ala	Ala
65					70				75						80
Thr	Gln	Ile	Asn	Glu	Met	Thr	Leu	Ser	Phe	Ile	Pro	Lys	Ile	Ile	Ala
			85						90				95		
Val	Phe	Val	Ala	Ile	Ile	Val	Ala	Gly	Pro	Trp	Met	Leu	Asn	Leu	Leu
			100					105					110		
Leu	Asp	Tyr	Met	Arg	Asn	Leu	Phe	Thr	Asn	Leu	Pro	Tyr	Ile	Ile	Gly
	115						120					125			

<210> 8165

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8165